



**UGA Computer Science**

**Graduate Student  
Resume Book**

**April 2010**

**Computer Science Research Day**  
**Graduate Student Resume Book**

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<b>No.</b>	<b>Student</b>
1	Naveen Aitha
2	Aryabrata Basu
3	Jianxia Chen
4	Jianan Chu
5	Gurinder Gosal
6	Zhibin Huang
7	Ankit Jain
8	Qi Li
9	Zhen Li
10	Qian Ma
11	Vasim Mahamuda
12	Justin Martin
13	Mustafa Nural
14	Tapan Patwardhan
15	Animesh Thakre
16	Uthayasanker Thayasivam
17	Rui Wang
18	Zhe Zhao

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### Summary

1 year and 2 months of professional experience in software development.  
Ability to adapt and work in diverse projects (Worked in Web development projects).  
Currently looking for full time opportunities in software development.

### Education

**University of Georgia, GA**      **GPA: 3.60/ 4.0**      Expected – Aug2010  
Masters in Computer Science

**IIIT, Hyderabad, INDIA**      **GPA: 7.5/10.0**      May 2007  
Bachelors in Computer Science

### Professional Experience

Software Engineer, **MAQ Software, India**      May 2007 – June 2008

### Professional Projects

**Windows Market Place (Microsoft as Delivery Partner)**      **(C#, .Net)**

I was part of the one of the Microsoft's prestigious projects named Windows Market Place during my work at MAQ Software. Microsoft made its presence into E-Commerce business with selling Office and Vista Online. This project involves in creating Web services which provides functionalities such as fetching Meta data, charging the customer, Tax reporting SellKeys reporting and Refunding the customer if needed and Synchronize.

**PTA-Re Investment Tool**      **(ASP .Net, C#)**

The PRI program is the means by which Microsoft partners make PCs and Microsoft software affordable to underprivileged organizations. The PIF Web Application is ASP.NET/C# application that will be deployed on Microsoft's Intranet which aids in tracking the PRI investments. It streamlines the creation, approval, monitoring and modification of the Deals made between Microsoft sales and the customer institutions.

### Masters Project

Visual and Parallel Computing Lab, (*Advisor Suchi Bhandarkar*)

**Hybrid Level Video Encoding for power constrained devices**      **(C++, Matlab)**

Video playback is computationally intensive task. Since the battery life decreases with time, it is desirable to have a layered video-representation, which adapts itself dynamically to the available battery-life in the device. A video is encoded as sketch part and texture part. Texture part is further divided into several layers. Based on the power availability corresponding layer is sent to the user so that video can be played on the resources available.

### Other Academic Projects

**Automation of Graduate Committee formation using Workflows**      **(JPDL, Java)**

A graduate committee formation in the CSE department is manual work and requires lot of time to complete the process. Workflows found to be very good solution for automating this process. JBPM-JBOSS are being used to automate this process.

**Developed E-Commerce Website**      **(JSP)**

As part of Software Engineering course at UGA, we developed E-commerce website to buy & sell and maintain the website by an administrator. The categories are arranged in a hierarchical manner and the attributes of each category were stored as Meta data.

**Tracking in multiple videos**      **(C++)**

A small area of a interest of a person would be selected in a video where videos are taken from cameras are mounted at various locations in a building. The task is to find the videos which the person is part of and make a route that he took at a given time range.

**Train Monitoring System****(C++, Matlab)**

A camera will be mounted little away from Railway Station and video of train will be captured. Now we need to detect the defects in the train and intimate those defects to the coming station, so that they will be rectified. Implemented a module to calculate the Timestamps of the railcars.

**Manifold based multiview recognition****(C++, Matlab)**

The task is to build a robust recognition system based on Manifold Learning. Given images from two different cameras, mapping them onto a Manifold and finding a relationship between the set of images taken from the same cameras in the Manifold.

**Web Spoofing****(PHP)**

This is to implement web spoofing, where in if a user requests for a site from browser, we (the intermediary) should come in between and connecting to the requested site on their behalf. Once we receive the content from the website, sending the data back to the user as if he is receiving from the website.

**Others**

Implemented MPI parallel programs as part of Numerical Methods and Parallel Processing coursework.

**Technical Skills**

Languages	: C, C++, C#, Java, UNIX Shell Programming
Web Technologies	: Asp .Net, PHP, CGI
Operating Systems	: Windows, Linux
Development Tools	: gcc, gdb, make, .NET, Pdbx
Others	: MySQL, HTML, Shell Programming

**Certifications:**

MCTS: .Net Framework 2.0 (MCP ID: 5602412)

MCTS: Web Applications

MCTS: SQL Server 2005

**Academic Achievements & Recognitions**

Graduate Assistant from Aug 2008- Present

Received Prathibha scholarship from State Government for all four years of my undergraduate education.

Secured All India rank 1367 and state rank 420 in AIEEE 2003 (**99.64 percentile**)

**Relevant Coursework**

Computer Vision, Algorithms, Data Structures, Image Processing, Graphics, Pattern Recognition, Artificial Neural Networks, Computer Networks, Software Engineering, Numerical Methods and Parallel Processing

## RESUME

**NAME:** Aryabrata Basu

**WORK ADDRESS:**

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<http://www.cs.uga.edu/~abasu>

**HOME ADDRESS:**

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Athens, GA 30605

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**CAREER OBJECTIVE:** To pursue a research career in the academics contributing to scientific theories by addressing the analysis, design and prediction of complex social, ecological, or memetic networks.

**RESEARCH INTERESTS:**

- Artificial Intelligence and Machine Learning
- Multi Agent System and Decision Making
- Image processing and analysis
- Algebraic Number Theory
- Computational Mathematics

My main research interests are in *Machine Learning & Computer Vision and Graphics*. Currently I am working on multi agent systems and decision-making in a newly developed framework called Interactive-POMDPs or I-POMDPs. They generalize POMDPs to multi-agent settings by combining it with concepts from game theory.

Also, I have written a paper on *Image Processing* titled '**On the governing dynamics of OWA filters: A robust filtering method and its application to color images**' using fuzzy logics based approach to develop an improved **Bilateral filtering** technique using **Ordered Weighted Averaging operators**. It has been accepted for presentation at the 2009 IEEE Symposium on **Computational Intelligence for Image Processing** (<http://www.ieee-ssci.org/index.php?q=node/25>) and for publication in the conference proceedings published annually by IEEE under the topic '**Image Filtering, Enhancement and Restoration**'.

My future research endeavors would be to successfully establish the 'Governing dynamics of Inverted Pendulums' and its implementation on 'Seismic Attenuation' using Hybrid fuzzy laws & to extend my findings of Prime number theory to prove 'Twin Prime conjecture' and using 'Graph theory' to predict the nature of Primes to a much higher accuracy.

## PRESENT STATUS:

- Pursuing my doctoral studies from the University of Georgia in Computer Science.
- An active member of the **THINC LAB** (<http://lhotse.cs.uga.edu>) at the University of Georgia.
- Associated with the **SCIP Working Group** (<http://www.fuzzy.ugent.be/SCIP/index.html>) since December 2007.
- I am also working on my own Prime number theory and its recurrence relation over a large domain using specialized 'Graph Theory'.

Also working on four concurrent projects as research associate at the University of Georgia, Athens.

- Multi Agent Systems and Decision Making: in context of I-POMDPs and Game Theory.
- Exploring segmentation and registration techniques of sub-cortical structures in Human Brain mapping.
- Implementing Machine-learning techniques in Real time scheduling algorithms with an objective to reduce the overall overhead and data redundancy. Status: A WIP session paper accepted at the 30<sup>th</sup> IEEE Real Time Systems Symposium (RTSS 2009), Washington D.C, Dec'09.
- Human Brain wave analysis and signal processing.

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## EDUCATIONAL QUALIFICATIONS:

**Institute Name:** Narula Institute of Technology, Calcutta, India  
West Bengal University of Technology August 2007  
**Baccalaureate Major:** Information Technology -- (GPA): 8.11/10.0  
**University:** University of Georgia. Athens, GA  
**Doctoral Major:** Computer Science -- (GPA): 3.56/4.0 (*Current*) USA

## SOME OF THE RELEVANT COURSES ATTENDED IN BACCALAUREATE:

- Artificial Intelligence
- Database Management System
- Operating System Principles
- Formal Language & Automata Theory
- Computer Organization & Architecture
- Data Structures & Algorithms

**TECHNICAL SKILL SET:****SYSTEM EXPERIENCE AND PROFICIENCY:**

- **Platforms:** Linux, Mac OS X, Windows
- **Programming Languages:** C/C++, Java, Visual Basic v6.0, HTML/XML, Java Scripting, Unix Shell Scripting, MatLab, LISP/Haskell
- **Special tools:** MultiSim, Flash
- **Databases:** Oracle 9i, IBM DB2, MySQL, MS Access
- **Servers:** Apache Tomcat WebServer v6.0.7
- **Special Skills:** OS level troubleshooting & technical support (Linux System Administration).

**PRACTICAL TRAINING / PROJECT:**

Topic of the Project/Training	Role played	Mentor/Institute
Strategic State Estimation in Uncertain and Mixed Multi-agent Settings.  Army Research Office (ARO) (work-in-progress)	Developer	Dr. Prashant Doshi (PI) Dept. of Computer Science  Dr. Adam Goodie (Co-PI) Dept. of Psychology  University of Georgia, Athens GA, USA.
Face recognition system implementing 'Support vector Machines' (SVM)	Lead Programmer	Prof. D.K. Basu, Prof. J.K.Sing Dept. of Computer Science & Engineering.  Jadavpur University, Calcutta, India.
a) Hospital Management System  b) Development of a Web based Mail Client System (Final-Semester Project)  (Undergraduate Level Project)	Lead Programmer And Database Designer	Prof. Suman Bhowmick, Prof. Nilay Kumar Nag  Dept. of Computer Science  Narula Insitute of Technology, Agarpara, Calcutta, India.
IBM DB2, RDBMS Concepts	Summer Trainee	IBM-ACE, Barrackpore, India.





## JIANXIA CHEN

Department of Computer Science

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### EDUCATION

Ph.D. Candidate

The University of Georgia, USA (Fall 2005 - Present)

GPA 3.87/4.00

Master of Engineering in Computer Science

Xiamen University, China (2005)

GPA 92/100

Bachelor of Engineering in Computer Science

Xiamen University, China (2002)

GPA 85/100

### PUBLICATIONS

1. **Jianxia Chen**, Lakshmish Ramaswamy and David K. Lowenthal. "CAEVA: A Customizable and Adaptive Event Aggregation Service for Decentralized Broker Overlays". Submitted to IEEE International Conference on Service Computing 2010.
2. Lakshmish Ramaswamy and **Jianxia Chen**, "The CoQUOS Approach to Continuous Queries in Unstructured Overlays", To appear in IEEE Transactions on Knowledge and Data Engineering (TKDE).
3. **Jianxia Chen**, Lakshmish Ramaswamy and David K. Lowenthal, "Towards Efficient Event Aggregation in a Decentralized Publish-Subscribe System", The 3rd ACM International Conference on Distributed Event-Based Systems (DEBS'09) July, 2009
4. **Jianxia Chen**, Lakshmish Ramaswamy and Archana Meka, "Message Diffusion in Unstructured Overlay Networks", The 6th IEEE International Conference on Network Computing and Applications (NCA'07), July 2007.
5. Lakshmish Ramaswamy, **Jianxia Chen** and Piyush Parate. "CoQUOS: Lightweight Support to Continuous Queries on Unstructured Overlays". The 21st IEEE International Parallel & Distributed Processing Symposium (IPDPS'07), March 2007
6. Lakshmish Ramaswamy, Arun Iyengar and **Jianxia Chen**. "Cooperative Data Placement and Replication in Edge Cache Networks". The 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom'06), November 2006.
7. Lakshmish Ramaswamy, **Jianxia Chen**, "Efficient Delivery of Dynamic Content: The

Cooperative EC Grid Project". The 1st International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom'05), December 2005

8. **Jianxia Chen**, Cuihua Li and Huawei Wang, "A Brief Survey of Speech Emotion Recognition", The 10th Joint International Computer Conference(JICC'04), November 2004

9. **Jianxia Chen** and Cuihua Li, "The Preprocessing of Fingerprint Images", The 15th National Computer New Technology and Further Education Conference, July 2004

## **RESEARCH PROJECTS**

- Complex Event Detection on Delay Tolerant Network
- Event Message Integration and Redundancy Elimination in Publish-Subscribe Systems
- Light Weight Support for Continuous Queries on Large Scale Unstructured Overlay Network
- Distributed Peer-to-Peer Network Simulator
- Gmail File System
- Soccer Game Simulator
- Web Cache Placement and Replication
- Video Surveillance of Moving Objects on the Sea
- Fingerprint Image Preprocessing

## **RESEARCH ACTIVITIES**

- Poster Talk in UGA Computer Science Research Day, April 2010
- Paper Reviewer  
(ICWS'10; DEBS'09; CoopIS'09; CollaborateCom'08; CoopIS'08; NetDB'06, ICDCS'06)
- Presentation in ACM DEBS'09, July 2009
- Poster Talk in UGA Computer Science Research Day, March 2009
- UGA Computer Science System Group Seminar Organizer, Spring 2009
- Presentation IEEE NCA'07, July, 2007
- Student Volunteer of CollaborateComm'06, November 2006
- ACM Student Member Since 2009
- IEEE Student Member Since 2005

## **TEACHING EXPERIENCE**

- Database Management, The University of Georgia, Summer 2007
- Java Programming, The University of Georgia, Summer 2007
- Mathematical Analysis, Xiamen University, Spring 2003

## **WORKING EXPERIENCE**

Bioimaging Research Center, The University of Georgia, USA (Fall 2007 – Present)  
System Administrator

\*Administrate and Maintain Computers with Unix/Linux/Windows Operating Systems

\*Independent Study on Electronic Circuit Design and Microcontroller Programming

\* Analyze Requirements, Design & Implement Signal Processing Electronic Circuit

- \*Cooperate with Interdisciplinary Researchers for System Requirement Analysis
- \*Propose Hardware & Software Solutions of IT Systems for Interdisciplinary Research Projects
- \*Cooperate with IT Personnel from Other University Departments on System Deploy

USC DigiArk Co. Japan (Spring 2005)

Software Engineer (Intern)

- \*First Overseas Intern Ever in the History of Computer Science Department, Xiamen University
- \*Independently Build Embedded Wireless Real-time Video Transmission Systems from Scratch
- \*Communicate and Cooperate with Foreign Engineers without Language Barrier

eHealthInsurance (Xiamen) R&D Center, China (Spring and Summer 2002)

Software Engineer (Intern)

- \*Implement Web Applications for ehealthinsurance.com
- \*Design and Implement Web Database Test Cases
- \*Evaluate Web Database Application Performance

### **SELECTED HONORS**

- Graduate School Assistantship, The University of Georgia (Aug 2005- May 2007)
- Excellent Graduate Student, Xiamen University (2005)
- Huawei Technologies Award, Xiamen University (2004)
- Excellent Student Leader, Xiamen University (2004)
- Excellent Student Award, Xiamen University (2002-2003)
- Excellent Thesis, Xiamen University (2002)
- Annual University-wide Scholarship, Xiamen University (1999-2002)
- Third Prize of Advanced Mathematical Contest, CS Dept. Xiamen Univ. (1999)



## **Jianan (Johnny) Chu**

U.S. Citizen

**Email:** gtg867f@gmail.com

**Cell phone:** 678-773-0697

3878 Lee Ridge Way

Lilburn Ga 30047

**OBJECTIVE** To pursue a meaningful and challenging C#/ASP.NET Software Developer position

**SKILLS**

**Languages:** Proficient in: C#, VB6/VB.NET, ASP.NET, Silverlight  
Experienced: Java/JSP, VHDL, C/C++, HTML

**OS:** Experienced with Linux, OpenSolaris

**Applications:** Crystal Report, Active Report, SharePoint, Dreamweaver, SQL Server Enterprise Manager, Query Analyzer

**Database:** Microsoft SQL Server 2008, Oracle 10g, Access, MySQL

**EDUCATION** **University of Georgia** Athens, GA Aug. 2009 - Present  
Master of Science in Computer Science

**Georgia Institute of Technology** Atlanta, GA Aug. 2002 - May. 2006  
Bachelor of Science in Electrical Engineering

**EXPERIENCE** **M-Tech Systems U.S.A., Inc.** Atlanta, GA Jul. 2006 - present  
**Software Developer**

- Developed user interfaces for the main modules using C# and MS SQL Server
  - Chick Dispatch Screen
    - Used to dispose chicks from the inventory
    - Sorted and grouped by 15 different parameters
    - Allocated among different farms, flocks, houses and pens
    - Multi-language capable
  - Journal Transaction Screen
    - Used to keep track of all the posted records from other screen
    - Calculated the cost for each transaction
    - Locked the records that are in use or posted from other screen
  - Developed Live Haul Scheduling (LHS) Setup screen,
    - Created one-to-many collection-object programming logic for each plant, plant line, crates, and catch crews
  - Farm Product Receiving Screen
    - Created records with receiving, debit or credit transaction code
    - Posted records to the Farm Product Inventory which will be used in Field Transaction screen
- Created or modified Active Reports
  - Converted VS report to Active Report
  - Built Active Reports by querying data from various tables in SQL, Oracle or Microsoft Access databases

- Updated, maintained and fixed bugs for main and customized applications of multiple clients
- Migrated programs written in VB6 to C#.NET
- Designed, developed, implemented and took the ownership of Live Animal Weighing System (LAWS) module using C# and MS SQL Server which
  - Completes the connection between Broiler Planning Assistant (BRPA) module and the processing plant
  - Exports projected killing schedule and farm information from BRPA to LAWS via wireless connection
  - Takes the gross and tare weight readings of the trucks from a FDA standardized scale through the serial port of the computer
  - Builds a crystal report with the recorded head count and calculated weight shrinkage
  - Sends information back to BRPA for further analysis
  - Went onsite to install and implement the program
- Dealt with issues from Project Managers, Tech Support and customers directly.

**Wingnuts Fastfood Restaurant, Inc.** Atlanta, GA Aug. 2003 - Jan. 2005

- Store assistant manager
- Trained new employees
- Documented all sales, tracked special deals
- Provided customer service

## **SCHOOL PROJECTS**

### **Java/JSP, Servlet**

- Designed e-commerce web applications similar to ebay.com
  - Bidding capability
  - User authentication
  - Category navigation
- Designed a GUI that is capable of obtaining weather data from the Internet for a given zip code

### **C Programming in Linux**

- Simulated a shell with redirection, pipes, sigkill and history features.
- Modified the Linux Kernel to build a priority queue for either TCP or UDP protocol
- Set up networks using multiple switches, routers, VLAN technology and Access Control Lists
- Modified a socket program to send TCP or UDP traffic to destination and measure the throughput

### **VHDL**

- Programmed a robot with adapting response to its environment that enables it to search rooms for specified object while avoiding obstacles
- Along with state machines, designed and simulated an automated train system with VGA display capability

### **Senior Design Group Project**

Designed a low-cost LED information display system that:

- Obtained weather data from the internet using Java XML

- Transmitted the information using RF signal with hand-built IC chips
- Coded using microcontroller and LED driver
- Conveyed weather index through spectrum of colors
- Used LED bulbs that fit into standard lamp socket





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## **PROFESSIONAL PROFILE**

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- An enthusiastic and versatile IT professional with a desire to succeed with 11+ years of experience in software field.
- Experience in analyzing business requirements, developing technical specifications, designing solutions, developing and delivering complex, multi-tier, medium to large-scale technology solutions using various Internet, Client-Server Technologies and tools to achieve enterprise-level business objectives.
- Acquired practical experience in ontology life cycle with ontology requirement gathering and analysis, solution designing and development, implementing semantic applications based on ontologies, querying and evaluating ontologies.
- Possesses strong background in client-server and Object Oriented methodologies and System Design.
- Exhibited strong technical and business acumen in the application of technology solutions.
- Motivator, a team player who has strong analytical, problem solving and business communication skills, reasoning power and organizational capabilities.

## **CAREER EXPERIENCE**

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**Visa Status**     Authorized to work in USA on OPT-EAD work authorization.

<b>GRA</b> LSDIS (Large Scale Distributed Information Systems) Lab, Biochemistry and Molecular Biology Computational Modeling Lab, The University of Georgia, Athens, Georgia, USA	Aug 08 to Present
<b>Senior Systems Analyst,</b> DCSE, PU, Patiala, Punjab, India	Sept 2000 to July 2008
<b>System Analyst,</b> PURCITM, MOHALI, Punjab, India	Dec 1996 to Sept 2000

## **TECHNOLOGY SKILL SET (CURRENT)**

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- **Internet & Client server Technologies:** Java, Servlets. OWL, UML, JSP, XML/XSL, C/C++, Python
- **Design/Development Tools:** Protégé 4.0, Jena 2.6.0, SPARQL, D2R, Eclipse IDE 3.5.0, NetBeans IDE 6.0, Python  
IDLE, IBM Rational Modeler
- **Web Technologies:** HTML, CSS, XML, JavaScript, JSP, Tomcat 6.0, Springs, Struts 2.0.12, AJAX
- **Relational Databases:** SQL, Oracle 10g/8i/8.x/7.x, PostgreSQL 8.3.5, MYSQL 5.1
- **Operating Systems:** Windows 95/NT/2000/XP/Vista/7, LINUX

## **PROFESSIONAL QUALIFICATIONS**

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<b>The University of Georgia, Department of Computer Science</b> M.S. in Computer Science	Athens, Georgia, USA
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- Got dual assistantship both from LSIDS lab of Computer Science department and Evolutionary Systems Biology Group Lab in Biochemistry and Molecular Biology department.

- **Thesis:** Developed an ontology ProKinO that serves as a useful and efficient representation of the integrated knowledge about the complex proteins called protein kinases which are intimately involved in the genesis and behavior of cancer cells.
- Have created a framework for the development, maintenance and application of the Protein Kinase Ontology.
- The maintenance and use of the ontology is divided into three main stages: (i) Automatic Data acquisition, integration, and ProKinO population, (ii) Curation and ontology modification, and (iii) Application
- **Relevant Coursework:** Algorithm Analysis and Design, Software Engineering, Advanced Database Management System, Computer Vision, Directed Research, Database Management System, Computer Architecture, Graduate Seminar, Software Engineering, Algorithms, Directed Research, - Advanced Information System, Machine Learning, Research Seminar and
- **Projects:** Automatic Text Summarization based on Ontologies, Text Mining, Related Work Finder, Electronic Auctioning System.

### **Punjabi University, Patiala**

Patiala, Punjab, India

#### Master of Computer Applications (MCA)

- Got admission in Master of Computer Applications by getting 5<sup>th</sup> rank in the entrance examination of university.
- **Relevant Coursework:** Operating System, Analysis and Design of Algorithms, Software Engineering, Database Management System, System Software, Computer Based Optimization Techniques, Software Engineering, Theory of Computation, Graph Theory, System Architecture, Computer Organization and Assembly Language.

### **State board of Technical Education, Punjab**

Patiala, Punjab, India

#### Diploma in Engineering

- Awarded merit scholarship from school in matriculation examination (10<sup>th</sup>) after getting 2<sup>nd</sup> rank in school.
- Received overall 1<sup>st</sup> rank in the college in 3 year diploma in engineering and overall 2<sup>nd</sup> in the whole state in the same program.

### **CAMPUS AND COMMUNITY INVOLVEMENT**

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- Attained 1<sup>st</sup> positions in the quiz contest and Essay competition of Thapar Polytechnic, Patiala.
- Performed as a student editor of the college magazine.
- Attained first position in inter branch Basketball Championship of the college.
- Participated as an active member of Yoga club, Photographic society, National Social Service and National Cadet Corps during college studies.

### **PROFESSIONAL DEVELOPMENT / PROJECTS**

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- Protein Kinase Ontology Development (ProKinO)
- Ontological Based Automatic Text Summarization (OBATS)
- Research Document Management System (RDMS)
- Eicher Tractor Payroll System (ETPS)
- DCSE Store Information System.
- Network Business Group Sales Order Processing System (NBG-SOPS).
- PSEB Sag Tension Calculator System (PSATS)
- Application Development Perks & Bonus Calculation System.

# Zhibin Huang

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## Research Interest

Computational Biology, Algorithm Design, Graph Theory, Image Processing, Machine Learning and Pattern Recognition

## Skills & Knowledge Acquired Through Education and Experience

Image processing and pattern recognition: Object (plate/face) detection, character recognition  
Artificial Intelligence and Machine Learning: Neural Network, Multiple Classifier Fusion/Ensemble  
Web Content Management: OpenCMS  
Programming Languages and OS: C/C++, Java, JSP/Servlet, Linux, Windows  
Database: MySQL, JDBC, DB2  
Applications: Eclipse, IBM WebSphere, IBM WebSphere Portal, IBM LDAP, Jboss, Tomcat  
Miscellaneous: Strong memory leak detection in C/C++ project, Good team cooperation skills

## Education

The University of Georgia Athens, GA  
Doctoral Candidate, Computer Science(GPA 3.79/4.0) Jan. 2007 - Present

Huaqiao University Fujian, P.R.China  
Master in Computer Science 2000 - 2003  
Excellent Graduate Scholarship of Huaqiao University, Dec. 2002

Huaqiao University Fujian, P.R.China  
Bachelor in Computer Science 1996 - 2000  
Excellent Student Scholarship of Huaqiao University, Dec. 1997, Dec. 1998, Mar. 2000

## Research projects

**RNAv: ncRNA Secondary Structure Approximation Search via Graph Homomorphism** UGA  
2009-Present

- Major research, architecture design and system implementation.
- RNAv is an extension of RNATOPS, and it supports approximation search of ncRNA secondary structure, in which any substructure can be allowed missing from the whole RNA secondary structure including pseudoknot. In this system, the optimal structure-sequence alignment between RNA structure profile and a target sequence will be treated as the graph homomorphism problem. Based on RNAv, structure variation search can be done in genomes and also evolutionary events can be detected, more importantly; it will lead to the discovery of new RNAs, or RNAs in evolutionarily distant species.

**RNATOPS: Fast and accurate search for ncRNA pseudoknot structures in genomes** UGA  
Aug.2007–Dec.2009

- Major research, architecture design and system implementation (the graph model building and the tree decomposition-based dynamic programming).
- The applications of tree decomposition-based dynamic programming techniques in structural pattern recognition field. A conformational graph is built based on the consensus structure from the training file, and the optimal structure-sequence alignment between RNA structure profile and a target sequence can be treated to be a subgraph isomorphism problem. Tree decomposition-based dynamic programming is applied to go through the enumeration of all stem candidates and take the permutation with the highest score as the final hit.
- ncRNA has a small tree-width, which makes it run faster than other SCFG-based method.
- RNATOPS software package download <http://www.uga.edu/RNA-Informatics/?f=software&p=RNATOPS>
- RNATOPS-W website: <http://128.192.76.182:8080/matops-w/>

**Human face detection and recognition in color images** UGA  
Jan. 2008 - Aug. 2008

- System design and its implementation.
- In face detection module, candidates of human face are detected based on clustering in color space. After preprocessing, component labeling will be applied to those candidates. False human faces will be removed based on statistical features; PCA method is applied in face recognition module;

### Automatic Vehicle License Plate Recognition System

Huaqiao University, P.R.China  
June. 2002 - June. 2003

- Major research, architecture design and system implementation.
- Detection of vehicle license plate module - a novel classifier fusion-based detection algorithm is proposed. After locating candidate license plate regions, features of these regions are extracted for the optimal feature subset by exhaustive search strategy. Based on classifier fusion framework, Simple Average (SA) method is compared with two Weighted Average (WA) methods. Experimental results show that after reducing the dependency of features, SA method works better. The most three important features of the license plate regions are obtained in the experiment;
- Character recognition module - it is statistics method based. Features of characters including numbers are extracted and a cascading classifier is used to do the character recognition.

### Working Experiences

#### Web Content Management System in Enterprise Portal System for Beijing Mobile Communication Company (BMCC)

Beijing, P.R.China  
Dec. 2005 - Nov. 2006

- Project Leader of Web Content Management System
- Technical support for services to mobile customers of BMCC.
- Requirement Analysis about Web Content Management System.
- Building Web Content Management System and integrate into Knowledge Management system - KM-Cms.
- Development of modules based on framework of spring+hibernate+struts. Integrating modules into KM-Cms such as polling module and workflow modules.
- Developing portlet as interface between KM-Cms and BMCC Portal System.
- Test-Driven Development.
- Deployment of security based on IBM GSD331 specification.
- Deployment of BMCC Portal, including theme and skin development, portlet development and deployment.

#### Enterprise Portal System for Lanzhou Petroleum Chemistry Factory

Beijing, P.R.China  
Dec. 2004 - Dec. 2005

- Requirement analysis
- Developing CM Portlet based on Web Content Management and assistant Portlets;
- Setting up Portal Production environment;
- Implementing a Cluster of portal servers based on Network Deployment;
- Configuration, management and tuning of DB2 UDB and LDAP;
- Configuration and tuning of WAS;
- Configuration of main Portal System and virtual Portal Systems;

#### E\_Government Project of Information releasing System

Nov. 2003 - Nov. 2004

- Requirement analysis
- Major Programmer
- Control-tier developer of servlet based on the Struts MVC framework
- Presentation-tier developer

### Publication

- **Huang,Z.**, Malmberg,R., and Cai,L. 2010. Non-coding RNA Secondary Structure Approximation Search via Graph Homomorphism, manuscript in preparation.
- Wang,Y., **Huang,Z.**, Wu,Y., Malmberg,R., and Cai,L.(2009) RNATOPS-W: A Web Server for RNA Structure Searches of Genomes, Bioinformatics, March 5, 2009.
- **Huang, Z.**, Wu, Y., Robertson, J., Feng, L., Malmberg, R., and Cai, L. Fast and accurate search for non-coding RNA pseudoknot structures in genomes, Bioinformatics, 2008 24(20):2281-2287.
- **Zhibin Huang** (Co-Author), HPTaa database-potential target genes for clinical diagnosis and immunotherapy of human carcinoma, Nucleic Acids Research, 2006 January 1; 34(Database issue): D607-D612.
- **Zhibin Huang**, et al, Classifier Fusion-Based Vehicle License Plate Detection Algorithm, The Second International Conference on Machine Learning and Cybernetics (ICMLC2003), Xi-an, China, Nov 2003, 2984-2989.
- **Zhibin Huang**, et al, Applying SVM In License Plate Character Recognition (Chinese), Journal of Computer Engineering, Vol.29, No.5, 2003.4:192-194.
- **Zhibin Huang**, et al, Algorithm of L Quick Binarization Catering to License Plate of Vehicle (Chinese), Journal of Huaqiao University (Natural Science), 2002,23(4): p427-p430.
- **Zhibin Huang**, et al. Character Recognition Based on The Cascading Classifier (Chinese), Journal of Application Research of Computers, p43-p46, Dec, 2002. ISSN: 1001-3695.

**Objective** To obtain a full time position as a software developer.

**Education** **University of Georgia, Athens, Georgia** Aug 2010  
MS in Computer Science, USA  
**Institute of Engineering and Technology, Indore, India** May 2007  
Bachelor in Computer Science

**Skills** **Language:** Java, JavaScript, C, C++, VB.NET, and HTML  
**DBMS:** Oracle, MySQL, and PostgreSQL  
**Others:** J2EE, Tomcat and Web Services  
**Operating Systems:** MAC OS X 10.5.8, Minix 3.1.4

**Awards** Awarded a full scholarship and assistantship to attend **University of Georgia-Athens** in USA.

**Work Experience**

- University of Georgia, Athens, United States: Research Assistant (Fall 2009 – Spring 2010)
  - Working on **Web Services** for developing **Ontology Browser/Portal** to browse, download and update the ontology with visualization and curation.
- University of Koblenz, Germany (Summer 2009)
  - Awarded **DAAD Scholarship** to attend Summer School & workshop on Semantic web.
- University of Georgia, Athens, United States: Research Assistant (Fall 2008 – Spring 2009)
  - Worked on Web Based Interface for Numerical Simulations of Non-linear Evolution Equations and **presented the paper on the same in IMACS conference** in 2009.
- CMC Limited (A TATA Enterprise), Indore, India: Software Developer (May 2007 – Jun 2008)
  - Built a Student Management System for an educational institution of ~5000 students. Automated manual processes to manage student records, staff, transportation, library, and class scheduling. Improved productivity by enabling reduction of staff from ~60 to ~30 members. **Tools Used:** VB.NET and MySQL.
  - Developed Matrimonial website that allowed users to register, search based on multiple criteria, chat, email and share photos. **Tools Used:** Dreamweaver, JavaScripts, Servlets, Tomcat web server and MYSQL.
  - Developed a project that allows large number of Internet shoppers to search or browse the inventory they want, they can select number of items to purchase and place them into the shopping cart. **Tools Used:** HTML, Dreamweaver, JavaScripts, Servlets, Tomcat web server 5.5. MYSQL 5.1.
- Computing and Technology Consultants, Indore, India: Software Developer (Nov 2005 – Nov 2006)
  - Developed an application that allowed for accurate, real-time visibility and tracking of 100-200 vehicles between 5 distribution centers. Improved customer satisfaction and internal productivity. **Tools Used:** VB.NET and MySQL.
  - Designed an application that promises to serve as an aid to all mobile users. They can enhance mobile's facilities using services provided by portal. **Tools Used:** J2EE Servlets and MS Access.
- Brainsmiths Education, Indore, India: Senior Faculty (Nov 2007 - May 2008)
  - Taught Mathematics to ~3,000 students for Engineering Entrance like **IIT** and **AIEEE**.
- Swati Jain Academy, Indore, India: Faculty (Apr 2004 – Jun 2006)
  - Taught Mathematics to ~500 students for admissions to a Masters program in Computer Science.
- Genuine Tutorials, Indore, India: Founder and Senior Faculty (Apr 2002 – Apr 2004)
  - Founded an organization to teach Math and Science to ~150 students ranging from 7<sup>th</sup> to 12<sup>th</sup> grade.
  - Managed two faculty members to support a wide range of subjects and parallel teaching.

**Leadership Experience**

- Institute of Engineering and Technology, Indore, India: Student Body President (Jul 2003 – May 2004)
  - Prevent ragging, select teams for sports, Information to students about events.
  - Liaison between faculty and students.
- Anti-Ragging (Anti-Hazing) Committee Member (Jul 2004 – Apr 2007)
- Forces Club Member (Organize all collegial events) (Jul 2004 – Apr 2007)



## Qi Li

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### SUMMARY

- More than five years software development experience
- Extensive knowledge in OO design, design patterns, database, network, algorithm and web service
- Strong self-motivation, excellent communication and problem solving skills

### EDUCATION

- M.S. Computer Science, University of Georgia (UGA), GPA 3.81/4.0, 2008-2010
- B.S. Instructional Technology, Central China Normal University (CCNU), China 1997-2001
- Certifications: Sun Certified Java Programmer, Sun Certified Web Component Developer  
Sun Certified Business Component Developer, Sun Certified Developer for Java Web Services

### PROFESSIONAL EXPERIENCE

#### Software Developer, Complex Carbohydrate Research Center of UGA, Athens, GA 2009-2010

- Developed and managed the GlycamWeb (<http://www.glycam.com>), a web-based 3D modeling tool for the Oligosaccharide 3D Structure Prediction. The GlycamWeb online tool is actively used by many biochemists around the world. More detailed responsibilities are:
  - Continuously improving the user interface
  - Adding new functionalities. A few examples are: building complex nested branch carbohydrate structures, attaching multiple glycans to proteins, enhancing the accuracy of torsion angles
  - Collaborating with third-party organizations to integrate their needs and tools with the GlycamWeb online tool
  - Managing source code using Git, fixing bugs and optimizing existed codes
- Technologies used: Java, Servlet, JSP, Apache Commons FileUpload API, Jmol, Amber, HTML, JavaScript, AJAX, Linux, Bash programming, Tomcat and Git

#### Software Developer, School of Social Work of UGA, Athens, GA 2008

- Designed, developed and maintained the school wide portal website (<http://ssw.uga.edu>) using Plone, Python, HTML, JavaScript, CSS, Photoshop and Linux technologies
- Designed and developed a web-based inventory checking system for the school faculty, staff and students to check in/out rooms, electronic equipments and multimedia materials using Java, Struts2 MySQL, HTML, JavaScript and CSS technologies
- Designed and developed the Survivor I Am campaign website (<http://www.survivoriam.com>) using HTML, CSS, JavaScript and Photoshop technologies
- Designed and developed a social network portal for the school alumni using Liferay

#### Software Engineer, Ravello Solutions LLC, Atlanta, GA 2008

- Maintained a J2EE-powered web-based policy administration system and developed new functions using Java, J2EE (Servlet, JSP, Struts, EJB), Log4J, SQL, JBoss, Tomcat, StarTeam, Oracle, Microsoft SQL Server, JavaScript, AJAX and Ant techniques
- Troubleshoot Email Server, Database Server, Backup Server and internal network

#### Quality Analyst, Digital Insight, an Intuit Company, Athens, GA 2006-2008

- Project leader of designing, developing and delivering web-based training websites for the purpose of product training and new hire orientation.
- Collaborated directly with Project Manager, Software Engineer, Web Developer, Web Designer, Network Engineer and Web Account Manager to perform quality assurance of online banking and business banking products for both front-end and back-end functions
- Contributed to the workflow process excellence and documentation enhancement



#### **Web Developer, Shanghai Sinostrong Network Co., Ltd., Shanghai, China 2001-2004**

- Designed and developed web-based interactive learning materials using HTML, JavaScript, CSS, JSP and Java technologies
- Created innovative project workflows

#### **SELECTED SCHOOL PROJECTS**

- **Enterprise Integration Project:**
  - Designed and developed a web-based tool which can automatically partition large scale ontology into smaller modules as a whole. The tool allows customized weights of different relationships and customized merging threshold. Technologies used: Java, JSP, OWL API, HTML, CSS, JavaScript and extensive graph algorithms
- **Computer Network Projects:**
  - Developed an echo client and echo server using C
  - Implemented a raw socket programming with modifying TCP/UDP headers using C
  - Created a Web Bot to automatically perform online shopping without being detected using Java, and Jakarta Commons HttpClient API and Protocols of IP, UDP, TCP and HTTP
- **Database Projects:**
  - Implemented a multithread Java programming to emulate transactions to compare the throughput of two-phase locking protocol and timestamp ordering protocol
  - Designed and developed a web-based stock broker website implementing the Database Normalization analysis using UML design, Java, JSP, HTML, Struts2, MySQL and SQL
  - Created a mini database using Java and implemented the index strategy using the Extendable Hashing Indexing algorithm
- **Machine Learning Project:**
  - Research on classifying brain patches by employing the stacking techniques (Naive Bayes, Support Vector Machine, Artificial Neural Network and Decision Tree) and feature selection approach
- **Data Structure Projects:**
  - Implemented a Binary Search Tree to calculate the frequencies of words for a given text file using C++
  - Developed a deadlock avoidance algorithm based on the resource requirement matrix technique using C++

#### **TECHNICAL EXPERTISE**

- Language: Java, J2EE/JavaEE (Servlet, JSP, Struts, Spring, EJB, JMS, JNDI, JPA, Hibernate ,Web Service), C, C++, Python, PHP
- Web Programming: HTML, JavaScript, CSS, JSP, XML, AJAX, JQuery, XSLT, XPath, XQuery
- Web Service: WSDL, SOAP, RDF, BPEL, XProc, Restful, JAX-WS (Metro), JAX-RS (Jersey)
- Web Server: Tomcat, Jetty, Glassfish, JBoss, Apache HTTP
- Database: JDBC, SQL, Oracle 11g, MySQL
- Tools: Liferay, Eclipse, NetBeans, Ant, Maven, JUnit, TestNG, AspectJ, Eucalyptus, Weka, SVN, Git, Mercurial, Eucalyptus

#### **HONORS**

- Graduate School Fellowship, University of Georgia, Athens, GA 2004-2006
- The best undergraduate research award by CCNU, China, 2000
- University scholarship by CCNU, China, 1997-2001

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**Zhen Li**  
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**Permanent Address**  
467 JiangXi Rd.(M) (305)  
Shanghai, P.R.C. 200002

## **SUMMARY OF QUALIFICATIONS**

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Numerous experiences in C and C++ programming in UNIX/Linux, especially in system and socket programming;  
Proven skills in Java, OO Design, SQL, DB Design and Management;  
Familiar with different AI searching/classification/decision making algorithms;  
Possess excellent team working skills and recognized by peers and professors as high-productivity;

## **EDUCATION**

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**The University of Georgia**, Computer Science Athens, GA  
*PhD of computer science* Expected May 2013  
GPA: 3.95/4.00; 100% financed by UGA

**Fudan University**, Computer Science Shanghai, China  
*Bachelor of Engineering in Software Engineering* Jun 2008  
Major GPA: 3.52/4.00; Overall GPA: 3.31/4.00;

**University of Dublin**, Information Science Dublin, Ireland  
*Joint Bachelor of Science in Computer Science* Jun 2008  
First Rank Graduate; Full Graduate Scholarship Recipient;

## **PROJECT EXPERIENCE**

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### **Travelling Salesman Problem with Genetic Algorithm**

Innovated a new binary tree representation with genetic algorithm to solve TSP  
Designed a corresponding genotype-phenotype translation method  
Compared the non-linear approach with linear approach on various dimensions and proved efficiency

### **Brain Surface Classification**

Designed and implemented two feature selection tools  
Systematized a stacking learning method to synthesize SVM, NB, ANN and DT algorithms  
Conducted performance analysis and evaluated algorithm efficiency

### **Web-based Glycomic Workflow (NIH)**

Designed and developed a web service with J2EE Spring MVC Framework  
Created and managed a specially designed database system for glycon information  
Implemented concurrent mass data transmission, storage and real time analysis

## **WORK EXPERIENCE**

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**Oracle Asia R&D Center** Shanghai, China  
*Software Development Intern* July 2007 – December 2007  
Developed a personalized advertisement system with Flex and J2EE Spring MVC Framework  
Organized and led black-box user logic test of RFID Game for "Oracle Open World" Conference  
Cooperated cross-team stress test of a large-scale concurrent visualization system

## **ACADEMIC EXPERIENCE**

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**The University of Georgia** Athens, GA  
*Teaching Assistant* August 2009 – Present  
Simulation and Modeling      Statistic evaluation of complex dynamic system performance with Scala and JSIM  
System Programming          UNIX systems programming on I/O, process management, network with C/C++

## **HONORS**

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P.E.O. International Peace Scholarship 2008 – 2009  
Starr Foundation Scholarship awarded by IIE 2004 - 2008  
Entrepreneur Ireland 2008  
People's Scholarship 2005 - 2006



# Qian Ma

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Athens, GA 30605

**Tel:** (706)-590-3521  
**Email:** qianma123@gmail.com  
<http://www.cs.uga.edu/~ma>

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**Objective**      **To pursue a challenging and meaningful software developer/analyst position.**

**Education**      **The University of Georgia, Athens, GA.**      Sep.2008 – Present  
                         **M.S, Computer Science**      GPA: 3.3/4.0  
**Beijing University of Aeronautics & Astronautics (BUAA), P.R.China.**      Sep.2004–May.2008  
                         **B.S, Computer Science**      GPA: 82/100 (top15%)

**Technique**      **Languages:**      C++, C#, Java, OpenCV, OpenGL, OGRE  
                         **Web:**      ASP.NET 2.0, CSS, HTML, XML, ADO.NET, IIS  
                         **OS:**      Windows, Linux  
                         **Databases:**      Microsoft SQL Server, Access, MySQL  
                         **Knowledge of:**      Silverlight, Ajax, COM, SOAP, WCF, STL, XSL, XSLT, Matlab

**Research**      **Research assistant@ Virtual Experiences Laboratory, UGA**      Sep.2009—Present  
**Projects**

- **Hybrid Sensor systems for Speech Interaction in Multi-party Virtual Patient Training**  
Design and implement the system which makes the virtual human better interact with real person, such as attention/gaze focusing, lip reading, voice correlating with speaker. (100% work by myself)
- ❖ *Key technology: virtual human creation (3D), face detection, lip region extraction, face/lip tracking, lip shape movement analysis, and audio stream correlating. (C++, OGRE, OpenCV)*

**Research assistant@ Visual and Parallel Computing Lab, UGA**      Dec.2008—Aug.2009

- **Digit Recognition system based on Back Propagation Neural Network** (100% work load)  
Design and implement the system which can recognize digits from a license plate or scanned phone number.
- ❖ *Key technology: image processing (noise removal, character segmentation, feature extraction) and back propagation neural network training. (C++, MFC)*
- **License plate detection system based on horizontal/vertical projection** (50% work load)  
The system can detect and segment the license plate region from a picture. (C++, Matlab)
- ❖ *Key technology: edge detection, image filtering, horizontal/vertical projection, image segmentation*
- **Office Management System Website** (50% work load)  
Design the website where staff can read announcement, take attendance. The employer can check the work attendance, publish announcement, and edit employer or department information. (ASP.NET, C#, SQL2005)
- **Property Management System** (50% work load)  
Implement the system that residents can query various management fees, browse local news and make a complaint. Manager could edit fee information, complaint message and resident information. (ASP.NET, C#, Access)
- **Library Management System Website** (50% work load)  
Design and implement the system which keeps track of the borrowed books, renewed books and returned books. Readers can query from the system and manager can update book information. (ASP.NET, C#, SQL2005, UML)

- **Online Examination System (50% work load)**  
Implement the system where student can choose the course, take the exam and query grades. Manager can edit exams, student information and student grades. (*ASP.NET, C#, Ajax, SQL2000*)
- **Blog Management System Website (50% work load)**  
Design a blog management for users to add, delete and browse the blog. (*ASP.NET, C#, Access*)
- **Minix Kernel Hacking (50% work load)**  
Modify the Minix kernel, implement lottery scheduler, add system call and semaphore. The kernel could solve a synchronization problem as a result. (*C language*)

**Internship**      **Research assistant@ Web Search and Mining Group**      Nov.2007—Apr.2008  
**National Key Lab for Software Development Environment, China**

- **Scientific Resources Association Retrieving module**  
Design and implement the system which can return relevant feedback results from other different fields which makes user easier retrieve more related resources. (50% work load)
- ❖ *Key technology: information retrieval, weight adjustment, and query expansion. (Java)*

**Awards**      **2-year-Graduate School Assistantship**      University of Georgia, 2008-2010  
**Excellent Graduation Thesis**      Beijing University of Aeronautics & Astronautics, 06/2008  
**Graduated with Honor**      Beijing University of Aeronautics & Astronautics, 06/2008

**Coursework**      Algorithm, Software Engineering, Operating System, Computer Network, Computer Vision, Parallel computing, Data Structure, Principle of Database Systems, Compiler Theory, Evolutionary Computation, Virtual Reality, System Programming, Assemble Language, Computer Architecture

## **VASIM MAHAMUDA**

Address: 109 College Station Rd, Apt J 106, Athens, GA 30605

Phone: 678-951-7035 | E-mail: vasim.mahamuda@gmail.com

### **PROFILE**

Energetic, dependable student with academic and real-time experience in the field of Computer Science and Engineering. Currently seeking an opportunity that utilizes my technical skills and compliments theory learned at the University level.

### **EDUCATION**

**M.S., Computer Science** August '08 – Present (**GPA: 3.7**)

University of Georgia, Athens, GA.

**B.Tech., Computer Science and Engineering** August '03 – April '07 (**GPA: 3.85**)

Andhra University, Visakhapatnam, India.

### **TECHNICAL SKILLS**

**Operating Systems:** DOS, Win 9x/2000/NT/XP, IBM-AIX, Sun-Solaris, HP-UX, Linux.

**Languages:** Java, C, C++, VC++, PL/SQL, Pascal, UML, Perl, CGI, PHP, VB, SQL, PL/SQL, UNIX shell scripting – ksh, bash.

**Databases:** Oracle 8i/9i/10g, MS SQL Server, MySQL, MS Access.

**Web Technologies:** AJAX, CGI, XML, JavaScript, D/HTML, DOM.

**J2EE Technologies:** JSP, JSF, EJB, Servlets, JDBC.

**Semantic Web:** RDF, OWL, SPARQL.

**IDEs:** Eclipse, Dreamweaver, NetBeans, HomeSite.

**Application Servers:** Apache Tomcat 6.0, JBoss, Websphere 6.1, Web Logic.

**Frameworks:** Struts, Ruby on Rails (RoR), Spring.

**Additional:** CVS, ANT, JUnit, MS Office, See5, WEKA, TOAD, JBPM, Free Marker.

### **EXPERIENCE**

**Association of American Medical Colleges (AAMC), Washington DC**

**Summer Intern June '09 - August '09**

- Developed web applications using ColdFusion/HTML & CSS.
- Creating stored procedures and cursors.
- Tested the different applications for any errors/bugs.

**University of Georgia, Athens, GA**

**Research Assistant (concurrent with Education) August '08 - Present**

- Working on a research project - 'Metagenomics'. The main goal of the project is to find a fast and reliable method for classification of species into their respective groups, using machine learning techniques.

**TATA Consultancy Services, Chennai, India**

**Software Associate January '08 – July '08**

- Developed an online feedback portal know as CLT leadership where all the employers rated their supervisors.
- Running impromptu reports on the HR database upon request of users.
- Provide backend database support for Tata Indicom, a telecom application.
- Developed the Java Application with client side using applets and server side using servlets, with SQL server as the backend.
- Developed Java applets and applications implementing a standard data classification algorithm.



**Justin R. Martin**  
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706.654.6056

## **Objective**

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To obtain a career in Computer Science utilizing knowledge of programming languages, troubleshooting, and group interaction

## **Education**

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**The University of Georgia, Athens, GA** May 2010

Master of Science, Computer Science

- **GPA:** 3.58/4.00
- **Honors & Awards:** Graduate Assistantship

**The University of Georgia, Athens, GA** May 2008

Bachelor of Science, Computer Science

Emphasis in Software Design

- **GPA:** 3.80/4.00
- **Honors & Awards:** Magna Cum Laude, Dean's List, HOPE Scholarship, Quality Foods Scholarship
- **Organizations:** The Georgia Redcoat Marching Band, Baptist Collegiate Ministries

**Gainesville State College, Oakwood, GA** July 2006

Associate of Science, Computer Science

- **GPA:** 3.93/4.00
- **Honors & Awards:** President's List, Dean's List, HOPE Scholarship, Gainesville Dean's Scholarship, Quality Foods Scholarship, Phi Theta Kappa Inductee
- **Organizations:** Gainesville State College Symphonic Band, Brass Choir

## **Computer Skills**

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- **Programming Languages:** C/C++, Java, Ruby, Groovy, Python, Pascal
- **Databases:** MySQL, Oracle, MS SQL
- **Web Languages:** HTML, PHP, JavaScript, GWT
- **Software:** Word, Excel, PowerPoint, Access, Finale, Apache Tomcat, Open Office, Netbeans IDE, Eclipse IDE
- **Operating Systems:** Windows XP, Windows Vista, Apple OS X, Linux
- **Compilers:** Yacc, Bison, Lex, Flex

## **Project Experience**

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**Database Management System** University of Georgia

CSCI 4370: Database Management

Summer 2007

- Created a database management system
- Compared performance to that of MySQL and Oracle
- Worked in a team of four

**Fast Food Simulation**

University of Georgia

CSCI 4210: Simulation and Modeling

Fall 2007

- Created a process interaction simulation of a fast food restaurant's operations during the lunch hour
- Simulation consisted of an animation
- Worked in a team of two



**Micro-Pascal Compiler** University of Georgia  
CSCI 4570: Compilers Spring 2008

- Created a compiler for a subset of the Pascal programming language

**Web Service Composition Optimization** University of Georgia  
CSCI 8350: Enterprise Integration Fall 2008

- Optimized Web Service Composition for eager, lazy, presumptive, and informed-presumptive composition strategies
- Worked in a team of two

**DNA Classification** University of Georgia  
CSCI 8950: Machine Learning Spring 2009

- Classified mixed sequences of actual DNA data using an Artificial Neural Network
- Worked in a team of three

**Semaphore Service** University of Georgia  
CSCI 6730: Operating Systems Fall 2009

- Developed a semaphore service for the Minix operating system
- Worked in a team of two

## **Professional Experience**

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**J House Media** Athens, GA  
Programmer March 2010 – present

- Programmed the logic behind dynamic websites and web applications using PHP
- Performed MySQL queries for various sites
- Worked in a team of three to effectively meet clients' needs

**UGA Department of Computer Science** Athens, GA  
Graduate Assistant Fall 2008 – Present

- Demonstrate advanced knowledge of Java by teaching an undergraduate course
- Grade assignments and quizzes
- Hold office hours for students to come and ask questions
- Teach labs and answer students' questions

**Aflac Worldwide Headquarters** Columbus, GA  
Intern Summer 2009

- Developed a Letter Generator System application as a Java applet
- Learned about applet technology, Open Office services, and Java servlets
- Worked in a team of 10 – 15 people

## **Other Activities**

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**Athens Church Production Team** Athens, GA  
Audio 2 Fall 2009 – Present

- Assist in connecting and disconnecting the audio system
- Assist the Audio 1 person during a production

**Blacks Creek Baptist Church Orchestra** Commerce, GA  
Orchestra Leader 2001 – 2008

- Arranged music for trumpet, clarinet, saxophone, baritone, trombone, and flute
- Managed all music for all instruments
- Utilized Finale software for transposing and creating digital sheet music

## **Mustafa Veysi NURAL**

March 2010

**ADDRESS:** Dept. of Computer Science  
415, Boyd GSRC  
Athens, GA 30602  
**E-mail:** mvnural@gmail.com

### **EDUCATION:**

PhD Computer Science, University of Georgia, Athens, GA. August 2008 -Present  
B.S. Computer Engineering, Fatih University, Istanbul, Turkey. June 2008

### **RESEARCH INTERESTS:**

Current research interests focus on Bioinformatics and Semantic Web

### **POSITIONS:**

August 2008- Present                      Research Assistant, Department of Computer  
Science, University of Georgia  
May 2007 – June 2008                      Researcher, Network and Software Engineering  
Lab (NetSE Lab), Dept. of Computer Engineering, Fatih University, Istanbul, Turkey.  
June 2007 – Aug. 2007                      Intern, Software Research and Development Center  
(SRDC), Dept. of Computer Engineering, METU, Ankara, Turkey.  
June 2006 – Aug. 2006                      Intern, Center for Bioinformatics, University of  
Nevada, Reno, NV

### **PUBLICATIONS:**

1. H. Gümüşkaya, M. V. Nural, S. Doğan, “A Software Solution for Mobile Context Handoff in WLANs”, Fourth International Conference on Telecommunications and Networking (TeNe 08), 5-13 December 2008.
2. H. Gümüşkaya, A. V. Gürel, M. V. Nural, “Architectures for Small Mobile Communication Devices and Performance Analyses”, First IEEE International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2008), Ostrava, Czech Republic, 4-6 August 2008.
3. H. Gumuskaya and M.V. Nural, “Service-Oriented Context-Awareness and Context-

Aware Services”, International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS2E 07), December 3 - 12, 2007, Online at <http://www.cisse2007online.org/>

**PUBLICATIONS IN TURKISH:**

1. H.Z. Yerebakan, M.V. Nural, I.O. Bucak, M.S. Hasanoglu, Q-Öğrenmesi Kullanan Bir Paraşütlü İndirme Sistem Denetimi Uygulaması (In preperation)
2. H. Gümüşkaya, A. V. Gürel, M. V. Nural, “Ortamdan-Haberdar Bir Sistem İçin Mobil Ağ Yazılım Mimarileri”, 2. Ulusal Yazılım Mimarisi Konferansı (UYMK 2008), Ege Üniversitesi, İzmir, 11-12 September 2008.
3. H. Gümüşkaya, A. V. Gürel, M. V. Nural, “Küçük Mobil Cihazlarda Kablosuz Ağlar Üzerinde SOAP, RMI ve TCP Performans Analizi”, 2. Ulusal Yazılım Mimarisi Konferansı (UYMK 2008), Ege Üniversitesi, İzmir, 11-12 September 2008.

**COMPUTER PROFICIENCY:**

Systems : Eclipse, Windows, SuseLinux

Languages: Java, C, Perl, PHP, Groovy, HTML, XML, RDF, OWL

Other: Web Services, Cisco IOS, Network Systems, Eclipse RCP Development,

**PROFESSIONAL ACTIVITIES:**

- Student Member of Association for Computing Machinery, since October 2005
- Chair: Association for Computing Machinery Fatih University Student Chapter, Oct. 2006 – Oct. 2007

**ACHIEVEMENTS :**

- Honor’s List in Fatih University, Istanbul, Turkey
- Ranked 91<sup>st</sup> in nationwide Placement Exam for prestigious Science High Schools in Turkey, June 2004
- Ranked 1<sup>st</sup> in the Elementary School Science Competition held among all the Elementary Schools in Ankara, Turkey, May 1996

## Tapan Patwardhan

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Contact: 214-236-7172, tapan.patwardhan@yahoo.com Web: [www.tapanpatwardhan.com](http://www.tapanpatwardhan.com)

### SUMMARY

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- Internship experience – worked on VOIP ( SIP, MS OCS, Wireshark)
- Strong development skills with **C/C++ and Java** on Linux/Unix platform.
- Excellent knowledge in **Object Oriented** methodologies and **data structures**.
- Experience with developing multi threaded applications.
- **MS Computer Science** with thesis on “Aerial Viewer”.
- Proven research, problem solving and debugging abilities.

### SKILL SET

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Programming languages: C, C++,Java, HTML, CSS, SQL, JSP, PHP  
Database: Oracle, MySQL  
Operating Systems: Linux/Unix, Windows  
Tools Used: Wireshark, TCP dump, Macromedia Flash, Eclipse

### EDUCATION

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#### University of Georgia

*Masters of Science*, Computer Science (GPA 4.0)

Graduation: 2010

*Immediate*

*Courses:* Computer Networks, Operating Systems, Analysis of Algorithms, Database Management Systems, Advanced DBMS, Computer Vision, Enterprise Integration

*Availability*

#### Institute of Engineering & Technology, Indore INDIA

*Bachelor of Engineering*, Computer Science

Percentage Aggregate: 77.19%

2007

### WORK EXPERIENCE

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#### Graduate Teaching Assistant, University of Georgia, GA

- Worked as an instructor for graduate level seminar course for teaching assistants. Aug 2009 – Dec 2009
- Worked as Instructor of Record for Introduction to Programming in Java. Duties included teaching classes, creating and grading exams, assignments and projects. Aug 2008 – July 2009

June 2008 – Aug 2008

#### Summer Internship, Siper Systems Inc, Richardson, TX

- Worked on **Microsoft OCS** – Installation and configuration of Consolidated Edge Server topology involving Remote client, Edge server and OCS server.
- Developed a matrix of SIP call flows with features and Call Servers.

#### Teaching Assistant, University of Georgia, GA

- Worked as tutor and grader for System Programming and System Development courses. Aug 2007 – May 2008

## **PROJECTS**

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### **Aerial Viewer (Master's Thesis)**

- Working on developing a framework of multiple surveillance cameras suspended in air connected via a wireless network to a workstation, in a low-bandwidth consumption and cost effective manner. Studying the performance of such a system on varying the parameters.

### **Voice over IP(VoIP) for Peer to Peer Communication**

- Designed and implemented an extensible framework in **Java**, enforcing on Object Oriented Design Principles. Voice session establishment between two computers was handled through the standard SIP messages.

### **Predicting economic recession using data mining techniques**

- Analyzed data for various economic indicators for the past 50 years, and applied data mining techniques to try and predict economic recession using the indicators and knowledge of previous recession periods.

### **FriendRanker: A facebook Application**

- Implemented a facebook application that would rank friends according to the relationship between them and number of photos that have both friends.

### **Operating System Features**

- Studied and modified Nachos, an instructional operating system developed at University of California, Berkeley. Added different features like semaphores and monitors, to the kernel. Also implemented various system calls, virtual memory and multi-threaded file system.

### **Web-server with shopping cart**

- Implemented a web-server with the capability of storing items in a shopping cart.

### **Texture based Image Analysis**

- Implemented various algorithms for Image analysis on the basis of texture. We focused on determining land and water regions in satellite images using texture information.

### **Online Book Store Management System**

- Implemented online Book Store Management system that used data extracted from [www.ISBNdb.com](http://www.ISBNdb.com) to search for books and compared prices from various online book stores.

## **ACTIVITIES & ACHEIVEMENTS**

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- Poster "Aerial Viewer: A Framework for aerial video surveillance" presented at CS Research meet in UGA.
- Served as Executive member & **Webmaster** in ISA 2008-09.
- Member of Phi Kappa Phi Honor Society.
- Passed National Mathematics and Science Olympiad Contest in 2001.
- Distinctively passed National Cyber Olympiad Contest in 2002.
- Awarded H.H. Krishnaji Rao Paur Prize for best student musician in School.

# ANIMESH THAKRE

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Athens, GA-30605 .USA  
Homepage: <http://cs.uga.edu/~tharke/Welcome.html>

animesh.thakre@gmail.com  
ani22@uga.edu  
404-453-5165

- Objective** To obtain a position in the field of application development where I can put to best use both my innovative skills as well as my technical knowledge.
- Education**
- Aug 2008 – Expected  
Aug 2010 **THE UNIVERSITY OF GEORGIA**  
**MS Computer Science**  
Advanced Numerical Methods & Scientific Computing, Image Processing, Automata & formal languages, Advanced Biomedical Imaging, Compiler Construction, Software Engineering, Computer Network **Athens, GA**  
**In progress**
- Aug 2004 – May2008 **NAGPUR UNIVERSITY, INDIA**  
*Bachelor of Engineering in Computer Science* **Grade: First Class**
- Standardized Tests** GRE (Graduate Record Exam) Quantitative analysis Score: 750/800  
TOEFL (Test Of English as Foreign Language) Total Score: 111/120
- Management Courses Summer 09** **UNIVERSITY OF KOBLENZ-LANDAU**  
International Management, E-Business Ventures, International Economics **Koblenz GERMANY**
- Experience**
- Fall 09 -PRESENT **THE UNIVERSITY OF GEORGIA**  
RESEARCH ASSISTANT: Driftmier College Of Engineering.  
  - Research under Dr. Kyle Johnsen (<http://kjohnsen.myweb.uga.edu>)
  - The goal of my research is to improve Speech Understanding in Virtual Patient Training through Word-Sense Disambiguation.
- Fall 2008 -Spring 2009 **THE UNIVERSITY OF GEORGIA**  
RESEARCH ASSISTANT: Department of Computer Science.  
  - Implementation of a parallel Algorithm to detect Hamilton cycles in a three regular cubic Cayley graph with 7! Vertices.
  - Research under Dr. Robert Robinson (<http://www.cs.uga.edu/~rwr>)
- Projects**
- IMPROVING SPEECH UNDERSTANDING IN VIRTUAL PATIENT TRAINING THROUGH WORD SENSE DISAMBIGUATION  
  - A dictionary based Algorithm for speech understanding based on WORDNET to produce appropriate speech response for Virtual Patients. Platform: C#
- DETECTION OF HAMILTON CYCLES IN THREE REGULAR CUBIC CAYLEY GRAPHS  
  - Creating and implementing parallel algorithms on a multi processor system for detection of Hamilton cycles in three regular cubic Cayley graphs with 5040 vertices. Platform: C++
- IMPLEMENTATION OF PARALLEL ALGORITHM TO SOLVE A NXN PERIODIC TRIDIAGONAL SYSTEM  
  - A Parallel algorithm capable of solving large tri diagonal system by parallelizing the system into subsystems. Platform: MPI (Message Passing Interface)
- MESSENGER APPLICATION FOR WIRELESS LAN NETWORKS (WIFI)  
  - A JAVA based GUI application with capabilities of instant chat features between WIFI enabled devices such as PDA's and Laptops
- SKILLS**
- SOFTWARE**  
  - Programming: C, C++,C#, PASCAL, JAVA, MPI(Message Passing Interface)
  - Computational Software: MATLAB
  - Operating System: Windows, Unix
- Honors & Awards**  
  - Recipient of DAAD (Deutscher Akademischer Austausch Dienst)
  - Received a research assistantship with full tuition waiver from university of Georgia 2009-10
  - Recipient of Regents Out Of State Tuition Waiver award.
  - Received an assistantship with full tuition waiver from university of Georgia for 2008- 2009.



**COMPUTER SCIENCE INTERN 2010**  
**UTHAYASANKER THAYASIVAM**  
200, Rogers Road, Apt. P209, Athens, GA 30605  
7062010781, [uthayasa@cs.uga.edu](mailto:uthayasa@cs.uga.edu)

**EDUCATION**

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**University of Georgia, Athens USA**  
2<sup>nd</sup> year PhD, Computer Science.  
Current GPA 4.0/4.0

**University of Moratuwa, Colombo, Sri Lanka**  
B.Sc. (Eng) Electronic and Telecommunication Engineering  
First class distinction GPA 3.75/4.0.

**RELEVANT WORK EXPERIENCES**

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**Graduate Research Assistant**

**August 2008 – Present**

**Department of Computer Science, The University of Georgia, Athens, Georgia**

- Ontology Alignment tool development to model it as a maximum likelihood problem.
- Integrated semantic similarity measure for concepts in the context of ontologies to overcome the typo errors.
- Studied the inexact matching of directed graph problem to improve the performance of ontology alignment.
- Developed a UAV controller and simulator to test various autopilot algorithms.
- Analyzed and implemented a UAV autopilot algorithm using PID.

**Software Engineer – Research & Development**

**Jan 2008 – Jun 2008**

**Creative Search Solutions Limited, Colombo, Sri Lanka (part of FAST - A Microsoft subsidiary, Norway)**

- Development of Configuration Service component for JUNO search framework of mass search engine, a module for C# implementation of OSGI framework.
- Management & Monitoring tool development to optimize the Juno platform.
- The responsibilities included development of RMI style server client which will read an XML configuration host provider services and inject request services.
- Developed JDBC driver and JDBC-ODBC Bridge for FAST Index, a propriety database for FAST Search.

**Software Engineer – Product & Development**

**Feb 2007 – Dec 2008**

**Learna Education Inc, Ontario Canada**

- Lead the Software Development Team (JAVA & Flash) and Testing Team in various products.
- Designed and developed the Security Manager & Live Update Manager Module for the whole software system.
- The responsibilities include designing, work assignment, training, and recruitment, motivating and leading the team to meet the goals.

Technologies: Java (core-Java, EJB, J2EE), XML, Flash, DB (MySQL, PostgreSQL, SQL), OS (Windows & Linux).

**Software Engineer – Product & Development**

**Feb 2007 – Dec 2008**

**Millennium IT Ltd. Colombo Sri Lanka**

- Development of nroff parser of Bill Presentment System MTN.
- Development and optimization of Call Rating System MTN.
- Responsibilities include development, optimization and enhancement of Bill Presentment System MTN
- Technologies: C/C++, Oracle, OS (Windows & Linux).

**SKILLS**

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- Programming Languages
  - Expert: JAVA, C#, GROOVY, SQL, XML, XSD, OWL, RDF, SPARQL
  - Intermediate: VB, C++, Python, HTML, XHTML, JSP
- Tools
  - Protégé, Eclipse, soapUI, BPEL, ANT
- Frameworks and Protocols
  - REST, SOAP
  - Apache Tomcat, BPEL, OSGI
- Databases
  - Oracle, PostgreSQL, MySQL
- Operating Systems
  - Windows (XP, 200 Vista, and 7), Linux (Fedora, Redhat, and Ubuntu)
- Specialized Softwares
  - Expert: MATLAB, R



## AWARDS

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- Sri Lanka Inventors Commission (SLIC) Scholarship & Award for best research projects 2006 /07
- Mahapola Higher Education (Merit) Scholarship for Undergraduate studies 2002 – 2006
- Dean's List honor for outstanding GPA during Undergraduate studies 2002 – 2004

## PUBLICATIONS

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- Uthayasanker.T, Abdul Cader M.F.M.A, Iynkaran.N (2006) Interactive Autonomous Baby Sitting Robot. International Conference on Information and Automation (ICIA), Colombo, December 2006

## WORK IN PROGRESS

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- DisMash: Scaling Mashup Services through Lightweight Distribution.
- On the Utility of WordNet for Ontology Alignment.
- An Integrated Concept Similarity for Ontology Alignment.
- A relationship extractor extension for OpenCalais.

## PROJECTS (INDUSTRY AND ACADEMIC)

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- Research assistant: Ontology Alignment using EM (JAVA, OWL, RDF & Protégé)
  - Semi automatic ontology alignment using Expectation Maximization algorithm.
  - New integrated similarity measures for concepts using semantic and lexical similarity measures.
  - Probabilistic framework for word-similarity.
- Team: Distributed mash-up execution engine (JAVA)
  - Distributed execution of mash-ups to enhance the performance.
  - First ever distributed mash-up execution engine.
- Research Team Lead: Tool to automatically generate, categorize and publish web services from APIs. (JAVA)
  - Semi Automatic web service generator – categorization of methods using Semantic similarity measures.
- Research assistant : Unmanned Aerial Vehicle Simulation System 3 members team, research project Matlab, ANTLR, C#
  - Autopilot using PIDs – drive a UAV automatically to achieve specified targets while stabilizing the frame.
- Leader: Research Document Inventory System 3 members team, term project Java (AJAX, JSP, struts, spring), CSS, XHTML, Oracle. (JAVA, Struts, Hibernate, JSP, XHTML, CSS, XML)
  - A user friendly tool to maintain a document inventory with special features for Research document.
- Team: Mozilla Firefox Plug-in for Research Document Management (JAVA, XML, JSP).
  - A Mozilla plug-in that enhance the experience of reading a document especially research document by automatically extracting keywords and their definitions and reference links.
- Leader: An Autonomous Interactive Mobile Robot for babysitting 3 members team, final year project Matlab, PicBasic, ORCAD, VB.
  - A robot capable of following a baby automatically while avoiding obstacles. Voice command driven / interactive capabilities. Anomaly detection including steep (e.g.: staircase) detection, cry detection etc. Records baby's voice and video log of baby's activities.

(SLIC award for best undergraduate project. Presented a paper and presentation on ICCIA IEEE conference).

## POSTERS AND PRESENTATIONS

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- Uthayasanker.T, Abdul Cader M.F.M.A, Iynkaran.N (2006) Interactive Autonomous Baby Sitting Robot. International Conference on Information and Automation (ICIA), Colombo, ISBN: 1-4244-0555-6
- Uthayasanker.T Unmanned Aerial Vehicle Simulator (2008) Research Day, University of Georgia.
- Uthayasanker.T, Gurinder.G, Hari.D, (2008), Soccer Event Detection using Hierarchical Markov Model, Computer Vision and Pattern Recognition mini conference, University of Georgia.
- Uthayasanker.T, Chinmy Kale, (2009) DisMash: A Distributed Mashup Framework., Advanced Distributed Systems mini conference, University of Georgia.

## References

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Mr. Morten Johnsen  
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Dept. of Computer Science,  
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<http://cs.uga.edu/~laks/>

# Rui Wang

PhD student in Computer Science, University of Georgia

E-mail: [very@uga.edu](mailto:very@uga.edu) Tel: 706-389-6467

Immigration Status: U.S. Permanent Resident (Green Card)

Mailing Address: 1681 Milledge Ave. Ext., Apt. U13, Athens, GA 30605

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**Objective:** Full time job related to Computer Science

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**Education:** Ph.D. of Computer Science, University of Georgia, Athens, GA, expected August 2010  
M. S. of Computer Science, Xi'an Jiaotong University, China, June 2005  
B. S. of Computer Science, Zhengzhou University of Light Industry, China, July 1998

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**Experience:** Research Assistant (*for Dr. Eileen Kraemer on wiki.cs.uga*), part time, UGA, Spring 2010  
Research Assistant (*for Dr. John Miller & Dr. Eileen Kraemer on semantic web service composition project*), part time, UGA, August 2008- December 2009  
Teaching Assistant (*CSCI4810/6810-Image Processing, CSCI6370-Database Theory, CSCI1100-Introduction to Computer Science*), part time, UGA, August 2006-May 2008  
Research Assistant (*for Dr. Eileen Kraemer on ApiDB web site maintenance*), part time, UGA, Spring 2006  
Teaching Assistant (*Database Theory*), part time, Xi'an Jiaotong University, China, Spring 2004  
Assistant Professor, full time, Zhengzhou University of Light Industry, China  
July 1998 - September 2002 (giving lectures including *Operating System Theory, Software Engineering, Assembly Languages, Introduction to Computer Science, etc.*)

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**Skills:**

**Programming:**  
Java (8 years), Python (1 year), C (5 years), Groovy (half year)

**Database:**  
MySQL, Oracle, DB2, SQL Server, Sybase, Access  
(Familiar with database design, management, development and SQL, JDBC, Hibernate programming)

**Web Applications:**  
HTML, JSP, Servlet, Applet, JavaScript, JQuery, Web Service, Pylons, Mako, ASP, CGI, PHP, Struts

**Application Development:**

- **Semantic Web:** OWL, RDF, WSDL-S/SAWSDL, Radiant, Lumina, Protégé, SPARQL, Jena, OWL API
- **Workflow:** BPEL, JPD, JBPM, BPML, Taverna, ActiveBPEL, NetBeans BPEL, Eclipse BPEL, Apache ODE, Oracle BPEL
- **Eclipse plug-in development:** SWT, EMF, GEF, GMF
- Familiar with the framework and programming on J2EE, EJB, .NET

**Development Environment:**

- **Programming IDEs:** Eclipse, NetBeans, Jbuilder, Visual Studio .NET, ANT, Dreamweaver, ROSE, UltraEdit
- **Other IDE:** Photoshop (11 years), Visio, Premere, Authorware, Flash, Protel

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**Research & Projects:**

**Adapting the Galaxy Bioinformatics Tool to Support Semantic Web Service Composition**, (Funded by NIH), August 2008-August 2009

- Programming: Python, Mako, Pylons, JavaScript, JQuery, HTML
- Web service data mediation
- Process mediation of service composition

**WS-BioZard: A Wizard for Composing Bioinformatics Web Services**, (Funded by NIH), August 2007-August 2008

- Programming: Java, Eclipse Plug-in Development, GMF/GEF/EMF, SWT
- Web service data mediation: SAWSDL (SAWSDL4j, Radiant), BPEL (NetBeans BPEL engine), OWL (OWL API, Protégé), XML, XSD (JDOM), XPath (Jaxen), XSLT

**Turn your email space into web storage**, Spring 2007

- Implemented a C/C++ program to directly save your local file into your email space and retrieve back

**Marrying Folksonomy and Ontology**, Fall 2006

- Combine folksonomies and ontologies to help semantic search among tags based on ontological relationships
- Programming: Java, Applet, TouchGraph, XML, OWL (Jena), MySql, JDBC

**CryptoDB** (a member of ApiDB), Spring 2006

- Maintain and update the ApiDB.org web site (HTML, JSP, Servlet, PHP, CGI, Struts, JDBC, Tomcat)

**E-Commerce web site design and development**, Fall 2005

- Java, JSP, Servlet, Hibernate, Tomcat, MySql, JDBC, UML (ROSE)

**SNMP network management**, Fall 2002

- Java, AdventNet SNMP API

**Water Conservancy Information Middleware of Flood Prevention System in China**, (Funded by China National 863 Program), September 2002 – July 2005

- XML-based Data Integration (Master's thesis)
  - 1) Design and implement a system that can integrate various databases including DB2, Oracle, SQL Server, Sybase, MySQL and semi-structured file, e.g., HTML and XML
  - 2) Programming: Java, JDBC, XML, SQL, XQuery, UML, ANT
  - 3) Meta-data model design
- Enterprise Information Portal (Portlet development on JetSpeed, IBM WebSphere Portal)
- System Integration (C++ Builder, VC++.NET)
- Web Service (VS.NET)

**EJB Application Server Middleware and its Supporting Environment**, (Funded by China National 863 Program), September 2002 – July 2005

- Servers studied: IBM WebSphere, JBOSS, JonAs, Tomcat, BEA WebLogic
- Programming: JAVA, EJB, J2EE, JMS, HTML, JSP

**Campus Network and Internet-based Information System**, Feb. – Jun. 1998

- Campus Network Framework and Topology Design
  - Development of Internet-based Information System (JAVA, Applet, HTML, ASP, ACCESS)
-

**Publications:**

- “**Ranking-Based Suggestion Algorithms for Semantic Web Service Composition**”, (with S. Ganjoo, al.) submitted to ICWS 2010, July 5-10, 2010, Miami, Florida, USA
- “**Adapting the Galaxy Bioinformatics Tool to Support Semantic Web Service Composition**”, (with D. Brewer, al.), *Proceedings of SWF 2009*, in conjunction with ICWS 2009, July 10, 2009, Los Angeles, CA, USA
- “**WS-BioZard: A Wizard for Composing Bioinformatics Web Services**”, (with Z. Wang, al.), *Proceedings of SWF'08*, in conjunction with SCC'08, July 2008, Honolulu, Hawaii
- “**A Composition Designer for Bioinformatics Web Services**”, (with Z. Wang, al.), Abstract Booklet for CSBS'08, March 2008, Athens, Georgia
- “**Image Transmission in Distributed Virtual Environment**”, (with N. Li, al.), *Proceedings of ICSC'2008* (Beijing), Vol.2, pp. 885-890, 2005, Beijing, China
- “**Enterprise Information Portal and Its Application in Water Resource**”, (with S. Xue, al.), Published in *Computer Engineering* (ISSN 1000-3428), Mar. 2005, Vol.31, No. 5, Indexed by EI (No.05149026700)

**Certificates:**

**IBM Certified Solutions Expert—DB2 UDB V7.1 Database Administration for UNIX Windows and OS/2**, 2003

**IBM Certified Specialist—DB2 UDB V6/V7 User**, 2003

**IBM Certified Systems Expert—Administration for IBM WebSphere Application Server Advanced Edition, V4.0**, 2002

**Certificate of University Teaching Qualification** of Computer Science, by the Ministry of Education of P.R. China, 2002

**Professional and Technical Credentials of Assistant Professor** of Computer Science, by the Education Department of Henan Province in P.R. China ,1999

**Honors:**

**Scholarship** for Students, Xi'an Jiaotong University, 2003 – 2004

**Outstanding Graduate Student** of Xi'an Jiaotong University, 2003 – 2004

**Scholarship** for Excellent Students, Xi'an Jiaotong University, 2002 – 2003

**Scholarship** for Students, Xi'an Jiaotong University, 2002 – 2003

**Outstanding Graduate Student** of Xi'an Jiaotong University, 2002 – 2003

**Scholarship** for Excellent Students, Zhengzhou University of Light Industry, 1996 – 1997

**Scholarship** for Excellent Students, Zhengzhou University of Light Industry, 1995 – 1996

**Scholarship** for Excellent Students, Zhengzhou University of Light Industry, 1994 – 1995

**Activities:**

**Assistant Coordinator for Graduate Students**, Xi'an Jiaotong University, Spring 2005

**Member of Graduate Students' Union**, Xi'an Jiaotong University, September 2002- July 2005

**Department President of Students' Union**, Zhengzhou University of Light Industry, January 1995- July 1997



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Athens, GA 30606, USA

## Zhe(George) Zhao

zhe@cs.uga.edu  
706-621-2737

### EDUCATION

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#### The University of Georgia

August 2008 - Present

Ph.D Student in Computer Science

- Scholarship: Graduate assistantship (Full scholarship), August 2008-present.
- Research Assistantship: Research interest focuses on the Software Engineering for Concurrency
- Teaching Assistantship: The Algorithm for the computational biology

#### Beijing Institute of Technology

September 1999- July 2003

Bachelor of Mathematics and Applied Mathematics

- Scholarship: National Scholarship, 1999-2000.

### RESEARCH EXPERIENCE

---

#### Computer Science Department at UGA

Research Assistant

August 2008 -- present

- Research focuses on the evaluation of various notations for modeling concurrent software, supervised by Dr. Eileen T. Kraemer.

#### Computer Science Department at UGA

Teaching Assistant

August 2008 -- December 2008

- Assist with Algorithms for the Computational Biology class of 20 students.

#### ACM SIGCSE, Chattanooga, TN

Student Volunteer

March 4, 2009 -- March 7, 2009

- Provide support for the workshop presenters.

### CAREER

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#### SIEMENS

July 2005 – July 2008

Senior Software Engineer (Platform development)

July 2005 – July 2008

- Designed and developed a test platform to simulate the RNC in Radio Access Network of the WCDMA system.
- Handled the critical bugs or problems reported from the various development centers.
- Provided the technical support to the colleagues in different development centers, such as Germany, Italy, and India.

#### HuaWei Tech., Ltd

December 2003 – June 2005

Software Engineer

December 2003 – June 2005

- Designed and developed several projects, such as the Static Routing MIB2096, the Layer 2 Tunnel, the RADIUS, and the TACASS protocols realization in our Versatile Routing Platform.
- Responsible for the maintenance of these software modules we developed.

### PROFESSIONAL SKILLS

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- **Technology:** TCP/IP protocol stacks, WCDMA system (Protocols of the Iu, Iub, and Iur interface in the RAN)
- **Programming Language:** JSP, Java, C, C++, Perl.
- **Web Techniques:** Hibernate, Servlet, Freemarker, Tomcat, Apache, and Socket.
- **Database:** MySQL, SQL Server, and Oracle.
- **Development Tools:** MyEclipse, NetBean, Rational Clearcase, BeyondCompare, SourceInsight.
- **Operating System:** Unix, Linux, Windows XP.

### SELECTED MAJOR COURSES

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- **Mathematics:** Advanced Algebra, Mathematical Analysis, Real Variable Function & Functional Analysis, Modern Algebra, Optimization, Mathematical Modeling.
- **Computer Science:** Computer Programming, Database Management, Data structure, C Programming Language, Software Engineering, Computer Network.