Sandeep Sharma
Masters in Computer Science & Engineering
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Summary of Qualifications:

- Masters of Science - Computer Science & Engineering.
- Design and Analysis of Algorithms
- Computer Architecture
- Applied Graph Theory and Combinatorics
- Local Wireless Networks
- Operating Systems
- Wireless and Mobile Computing
- Web Databases and XML.

Employment/Work Experience:

Systems Engineer, QChat, Qualcomm Inc., Aug 2007 to present

- Primary responsibilities include system design activities of QUALCOMM's QChat Push to Talk technology. The QChat System is an end-to-end solution that enables instant Voice Over IP (VoIP) communication.

Graduate Teaching Assistant (GTA), Computer Science Dept., University of Texas at Arlington (UTA)

- Summer 2007: Full time Intern at Whamtech Inc. working on distributed database indexing middleware using SQL Server 2005, MFC and C++.
- Summer 2007: Faculty Associate at UTA – Research Project on Theft proofing data.
- Fall 2006 – Spring 2007: GTA for Computer Architecture II
- Summer 2006: Graduate Research Scholar at The CReWMaN Lab at UTA
- Spring 2006: GTA for Introduction to Computer Programming

Assistant Systems Engineer at Tata Consultancy Services Ltd., Sep 2004 to Dec 2005

Enhancement/Development Resource – Retail Module at the Offshore Development Centre of Toyota Financial Service, USA (Client). Primary responsibility being application development, maintenance and management. Analysis, quantization and implementation of client requirements.
Technology - IBM MVS/OS (Mainframes) platform, COBOL, JCL, DB2, VSAM.

Educational Background:

Semester / Degree	Institution	Year	Aggregate % / GPA
Masters of Science – CSE	University of Texas, Arlington	January 2006 - current	**3.78 / 4.0**
Bachelors Degree – CSE	Kalyani University, India	May 2004	**88.57 %**

Technical Exposure:

Programming Languages	C, C++, Perl, COBOL, JCL (Mainframes), JAVA, XML, HTML, Assembly
DBMS	SQL Server 2005, DB2(Mainframes), IMS DB, ORACLE 8.0
Computer Networking	Network Simulator 2, Ethereal, Wireless-Mesh, WLAN
Platforms	IBM MVS/OS (Mainframes), Windows 2000/XP, Linux / Unix
Hardware	Intel 8085 and associated peripheral IC's.
Application Software	Microsoft Visio, Word, Excel, PowerPoint, Simplescalar Simulator

Certifications:

- Certified in **IBM Websphere Studio Application Developer** (IBM WSAD) Tool.

Research Area:

Research activities on Channel Assignment in Wireless Mesh Networks at The Center of Research for Wireless Mobility and Networking (CReWMaN: http://crewman.uta.edu), UTA.

Academic achievements:

- Scholarship of 1000 USD in Summer 2006 semester granted by Dr. Sajal K. Das – Computer Science Department at The University of Texas at Arlington.
- Topped with an aggregate of 88.57% in my Bachelors degree in Computer Science.
- Secured 88.63% in WBMP (Standard X) and highest aggregate of 97% in Science group in the State.
- WBJEE rank of 1253 and All India rank of 117 in IIIT, Calcutta Engineering Entrance Examination.

Projects:

Graduate

- Discrete Event Simulation of p-persistent CSMA Protocol in a fully connected & Ad-hoc Radio Network.
- Discrete Event Simulation of a greedy approach based channel assignment algorithm in a multi-radio multi-channel Wireless Mesh Network.
- Performance evaluation of 802.11 DCF in a Wireless network simulated on Network Simulator 2.
- A simple logging Web Proxy Server that interfaces between browsers and Web Servers.
- Simulation of Distance Vector Routing Algorithm on 4 routers based on an asynchronous model.
- Analysis and study of Network protocols and ARP on 802.3 Ethernet using Ethereal.

Undergraduate

- Research and development of a model of a proprietary file format (*.san*). Primary features of this file format are data security and storage space allocation optimization. Innovative features like Scattered Principle (SP), Misplaced Allocation Strategy (MAS) are unique features of this file format.
- EZ Finance – A Loan monitoring system developed at TCS Initial learning Program at Trivandrum using HTML, JSP, Core JAVA, and Oracle as backend on an Apache Server.
- Operation Research Solutions (ORS) – Implementation of Game theory, Linear Programming problem, Simplex, Resource Allocation and Transportation theory problems.
- Simulation of an automated traffic light Simulator and Control system on 8085 Microprocessor board.

Languages known: English, Hindi, Bengali and German.

Extra-Curricular Activities:

- Member of Upsilon Pi Epsilon – International Honor Society for Computing and Information disciplines.
- Member of IEEE, Association for Computing Machinery (ACM), National Society of Black Engineers (NSBE), The British Council Library - Kolkata and former member of The Computer Society of India.
- Member of India Music Arts and Cultural Society (IMACS: http://imacs.uta.edu) and Fine Arts Society of India (FSI) at UTA.
- Sports - Cricket, table-tennis, carom and action and strategy based computer games.
- Photography, reading computer magazines.