

ARCHANA VINZE

EDUCATION

Master of Science in Computer Science, Expected: May 2010
Viterbi School of Engineering, University of Southern California (current GPA 3.56)

Bachelor of Engineering, 1st class (Electronics and Telecommunications), June 2006
Cummins College of Engineering for Women, Pune, India
Certification in Programming (C/C++), SEED Infotech, Pune, June 2004

COURSEWORK

Database Systems, Computer Networks, Software Engineering, Web Technologies, Operating systems
Telecommunications Electronics, Application Programming, Algorithms, Security Systems, 3D Graphics and Rendering

SKILLS

Programming Languages: C/C++, VC++, HTML, DHTML, CSS, XML, JavaScript, XML DOM, Perl, Ajax, JSON, Java, Java Servlets, REST, SOAP, COBOL, CICS, VHDL, Assembly, Ezytrieve

Tools/Packages: MySQL, DB2, IMS, Apache, Tomcat, OPNET, Wireshark (ETHEREAL), Visual Studio, MATLAB (*have used MATLAB's IMAGE PROCESSING TOOLKIT for my undergrad project of fingerprint identification*), Adobe Photoshop
Operating Systems: WINDOWS, UNIX, LINUX, MAC OS, IBM OS/390, TCP/IP

PROJECTS

VITERBI SCHOOL OF ENGINEERING, UNIVERSITY OF SOUTHERN CALIFORNIA

- DATABASE:** Developed and Implemented Database system using MySQL and XML Packages.
- SOFTWARE DEVELOPMENT:** Developed a website for Proyecto Pastoral, as System Analyst/UML modeler, UML modeling using IBM Rational Software Manager
- AJAX/JSON :** Created a Flickr Google Maps mashup that provided a Google Maps-based interface to display public Flickr images. Used a combination of HTML, CSS, DOM, XMLHttpRequest, XML and Java Servlets.
- Server side scripting in Perl** to create a website with the ability to provide comparison of two search result pages.
- XML DOM project :** Developed HTML/ Javascript program involving parsing an XML file and display XML file in HTML in a given template.
- JSP project :** Web based information system interfaced with MYSQL database. Shopping cart implemented in system.
- UNIX SOCKET PROGRAMMING:** including Stream and Datagram Sockets,
Simulated a self-organizing network of stand-alone nodes communicating in a Client/Server environment using UNIX Sockets in C. Implemented multithreading/multiprocessing for a client-server prototype.
Implemented a peer to peer distributed file sharing system, M/M/2 queue with condition variables
- NETWORK SIMULATIONS using OPNET:** Local Area Networks such as Ethernet (Both Shared and Switched) and Routing Algorithms including RIP and OSPF were simulated and their performances were evaluated
- NETWORK PROTOCOL ANALYSIS using Wireshark "ETHEREAL":**
Protocols analyzed included DHCP, DNS, SSL and HTTP
- 3D graphics & rendering :** building a graphics library in Visual Studio
- Computer Security Research Paper (ongoing):** Security for Online Transactions.

PROJECT WEBSITE

<http://www-scf.usc.edu/~vinze/WebTechProj.html>

WORK EXPERIENCE

IBM, INDIA, AUGUST 2006 ~ AUGUST 2008

Application Developer (Mainframe Systems)

- Enhanced, tested and maintained a 24/7 on-call support system for the Nisource Distributed Information System. Worked in VM/CMS environment.
- Developed programs using COBOL, CICS, CICS maps, DB2/IMS database, SQL. Developed VB Script Macros for interfacing with on-line CICS screens for fast processing
- Developed several modules from scratch by preparing functional and technical specification, design, coding, unit testing, integration testing, system testing, implementation, and post production support and maintenance.

USC Shoah Foundation: Video Archive Student Assistant (Current)

- Quality Control of recordings in MPEG-2, motion JPEG 2000 formats
- Digitizing the master videotaped recordings, inventory control

AWARDS/ RECOGNITION

- BRAVO : Best of IBM award for excellence in Nisource Project
- IBM DB2 Database Prime Certification Award