

Shweta Saraf

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EDUCATION

Masters in Electrical Engineering (Computer Networks)
University of Southern California

May 08

Bachelor in Engineering, (Electronics)

Vivekanand Education Society's Institute of Technology (VESIT) Mumbai, India

June 06

Related Coursework:

Operating Systems

Data Communication & Networking

Broadband Network Architectures

Wireless Communications

Telecom Network Management

Advanced Topics in Computer Networks

Probabilistic Models

Web Technologies

COMPUTER SKILLS

Programming Languages: C, C++, HTML, VHDL, JAVASCRIPT, CSS, CGI, XML, PERL, AJAX, JSP

Applications: Office XP, Adobe PageMaker, Adobe Indesign, Adobe Photoshop, Eclipse, MatLab, Simulink, PSpice, FileMaker Pro, ACT version 9

Operating Systems: Windows, UNIX

Networking Fundamentals: TCP/IP Suite, FTP, SMTP, SNMP, 803.3, 803.5 Protocols

PROJECT EXPERIENCE

Google Maps Interface using AJAX, JSP

Using Ajax on client side and JSP on server side running on Apache Jakarta Tomcat, created an extension to Google Maps Interface.

Server Side Scripting in Perl

Using Perl, CGI Programming and XML had to create you create a web site, which will provide to a visitor the ability to search for T-Mobile WiFi Hotspots at airports, Starbucks, FedEx, Borders bookstores and various hotels.

Application of Game Theory in Ad-Hoc Networks for analyzing pricing

Research Project to survey ongoing work in game theoretic ad-hoc network research especially that of pricing. Proposition of novel methods for analyzing the pricing issue in a game with malicious node.

Simulation of a Bank

Implemented a Distributed USC Credit Union Bank using synchronization primitives, system calls - Fork, Exit and Exec. Virtual memory and demand paging, Remote Procedure Calls were implemented in a client-server model.

Multi-Utility Sensor Networks

International Exhibition - ELECRAMA 2006 exhibit. Implemented a sensor network using AT Mega 8 chips, which were controlled by a Network Management Software. Applications implemented - Voting Pads of Popular Game show - 'Who wants to be a Millionaire?', Smart Home and Chemical Industry setup.

Role of Wireless Ad-Hoc Networks in Disaster Management

Project for CSIDC conducted by IEEE Computer Society which implemented mobile agents, in Jade-Leap, for disaster management. Mumbai floods of July, 26 2006, were the disaster under consideration.

Simulation of Ethernet and Switched LAN in OPNET

A office area network was designed using OPNET. The changes in the interarrival packet delays and load on the system in form of throughput were studied.

Socket Programming

Carried out UNIX socket programming to conduct a poll among 5 identical concurrent poll agents with the help of bootstrap server and client agents.

Simulation of Queuing Systems

Simulated M/M/1/infinity/FIFO, M/M/1/infinity/LIFO and M/G/1/FIFO queues in C.

PROFESSIONAL ASSOCIATIONS

IEEE Graduate Liaison at USC

Editor in Chief - IEEE Student Branch at VESIT, Publications - Innovation, Short Circuit, Sync

Worked for Trojan Hospitality and received a Spirit Award