

MIRIL J CHHEDA

2662 Ellendale Place Apt #6 Los Angeles CA 90007.

Cell No: 1(213)-321-5440

Email: mchheda@usc.edu

OBJECTIVE

To obtain a full time position where I can utilize my skills and education and also broaden my expertise by working on challenging projects and contribute to the growth of both company and self.

ACADEMICS

Master of Science in Computer Science
University of Southern California, Los Angeles, CA

Expected Graduation: **August 2009**

Relevant Courses:

| | | | |
|-----------------------------------|--|------------------------|--------------------------------|
| Computer Communication | Computer Network | Computer Security | Broadband Network Architecture |
| Interactive Multimedia Production | Advanced Mobile Devices and game Console | | Computer Graphics |
| Database Systems | Artificial Intelligence | Analysis of Algorithms | |

Bachelor of Engineering in Electronics
University of Mumbai, Mumbai, India

July 2007

WORK EXPERIENCE

Intern, Zobrist Consulting Group, Van Nuys, LA

June'08-Aug'08

- Configured Web Servers using **IBM Websphere Application Server** and Created portals and templates using **IBM Web Content Management**
- Performed **stress testing** involving **performance and tuning tests**

Research Assistant, USC

Jan'08 – May'08

- Assisted Prof Joo Hee in her project "Forecasting Pre Launch of Music based on Online Word-of-Mouth: A Bayesian Approach of **Peer-to-Peer(P2P)Network Usage Data**"

TECHNICAL SKILLS

Languages: C, C++, Objective C, Open GL, Processing, HTML, CSS, Socket Programming, Assembly Language
Tools: VMware Workstation, VMware Server, GnuPG, SNORT, s-tools, Opnet, Wireshark, Matlab
Protocols: TCP, IP, RIP, OSPF, BGP
Operating Systems: Windows, UNIX (SOLARIS), Mac
DBMS: MySQL, DB2
Applications: Adobe Photoshop CS3, Final Cut Studio 2, Microsoft Office

RESEARCH PAPER: Network Intrusion Detection (NID)

(Under mentorship of Dr. Clifford Neuman)

This paper grouped together the past, present and future of NID systems, its strengths and limitations, common attacks and vulnerabilities of NIDS and also highlighted current research in the field of Data Mining and Machine Learning concerning NID.

PROJECTS:

I-Phone Game (Team Lead)

Spring 2009

- Developing an I-phone game "Deep Sea Treasure Hunt" on **I-phone SDK** using **Objective C**
- Uses the accelerometer and tilt feature of the I-phone

Distributed Peer to Peer File Sharing System

Spring 2008

- Implemented a **P2P** network based on **FREENET** in C using **Pthreads**.
- Nodes can share their files with other nodes in the network through their peers by efficient searching for files using bloom filters.
- Authorization for deleting files is done via certificates transferred over a request for storing and retrieving files to/from the network.

Multithreading and Queuing

Spring 2008

- Emulated an M/M/1 queue using **multithreading** in C to keep track of multiple client requests and display various statistics
- Deadlocks handled in multiple threads using condition variables

Client Server Communication (Socket Programming)

Spring 2008

- TCP sockets set for multiple clients to communicate with server simultaneously. Server handles requests to determine IP address and File requests. The client computes MD5 checksum of the received file on the fly

Image recognition and performance evaluation of neural networks

Fall 2008

- Designed, trained and tested a Neural Network in **Matlab** to recognize faces and simple motions

A* and Theta* algorithm

Fall 2008

- Implemented A* and Theta* algorithm in C using **Priority Heap** to find the shortest path length in a maze with obstacles

Database Management System

Fall 2008

- Developed and implemented EER, CIOM Model for a Restaurant System using My SQL.

Analysis of Network and Protocols using Opnet Network Analyzer and Wireshark (Ethereal) Protocol Analyzer

Fall 2007

- Implemented Opnet simulation for switched LAN's to examine the performance of different networks connected by hubs and switches
- Studied and analyzed the working of the Internet Protocol (IP), Ethernet and the Address Resolution Protocol using Wireshark

LEADERSHIPS: Vice President, Jain Student Association, USC, <http://jsa-usc.tk/>

Oct'07 – Present