APOORVA JOTANGIA
(650)-696-0814 apurva.jotangia@gmail.com www.linkedin.com/in/apoorvajotangia

OBJECTIVE
Accomplished engineer with strong knowledge of CS fundamentals and passionate about new technologies

EDUCATION
M.S in Computer Science, San Jose State University, San Jose, CA, **GPA-3.68**   **Graduated: Dec'15**
B.S. in Electronics and Telecommunication Engineering, University of Mumbai, India   **Graduated: May'11**

SKILLS
Programming Languages	C/C++, Java, HTML, CSS, XML, JSON
CS Fundamentals	Data Structures, Algorithms, Object Oriented Programming
Scripting Languages	Perl, Python, PHP, JSP, PL/SQL, Unix Shell, JavaScript, jQuery, Ajax
Networking	IP Networking, packet forwarding, routing protocols (BGP, OSPF, HTTP)
Database Systems	MySQL, Oracle, MS SQL, Mongo DB
Tools	Eclipse IDE, NetBeans, Visual Studio, VI/Sublime Text 2 editor, Workbench

EXPERIENCE
Network Engineer Intern- Reliance Communications (DAKC)   **July 2011**
- Assisted in configuring and maintenance of existing LAN/WAN for 4G technology
- Performed troubleshooting on switched VLAN with multiple routing protocols
- Administered Cisco switches, routers, QoS, VoIP telephony and network protocols
- Developed a chat messenger using Java to have VoIP, where phone calls are handled over IP address

GRADUATE PROJECTS – SJSU
1. Analysis and Implementation of Load Balancing in Software Defined Networking   Fall 2015
- Proposed the idea to implement load balancing service using POX controller (fat-tree topology)
- Developed three load balancing policies like round robin, random and load based for better QoS
- Utilized OpenVswitch to connect hosts and controller together along with OpenFlow protocol
- Used Python scripting language to perform load balancing implementation
- Executed performance evaluation on the basis of Latency, Throughput and Response Time
- Developed a UI design using HTML/CSS for demonstrating the project application

2. Extensible Messaging and Presence Protocol (XMPP)   Fall 2015
- Created an Instant Messaging server using Openfire and Spark
- Successfully analyzed and captured network traffic based on XMPP/ Jabber protocol
- Observed the connection life cycle of XMPP using Wireshark tool

3. Man in The Middle Attack (MiTM) – Vulnerabilities and Prevention Mechanism   Fall 2014
- As the part of a group course project, implemented the MiTM attack using backtrack in Linux and Mininet
- Researched on couple of IEEE papers for proposed preventive algorithms-KS, DepMac-IP and ARPDote
- Demonstrated ARP spoofing caused by MiTM using network tools such as Ettercap, Dsniff
- Compared various algorithms on basis of cryptography, overheads and hardware requirements

4. Photo Sharing Hub   Spring 2014
  Part A: Desktop to Web Server Photo Sharing
- Led a team of four to build a website with Java, PHP, CURL, MySQL and node.js to share photos/videos
- Enabled authentication for users to upload, download, delete and share photos on social networking sites
  Part B: Cross- Domain Photo Sharing
- Enhanced the features with cross-domain photo sharing using Java socket programming, PHP and CURL
- Fabricated the Client-Server model with congruent processing and communication with http protocol

5. Memory Management and Virtualization of Virtual Machines   Fall 2014
- Analyzed Bare Metal and Hosted hypervisors and introduced three memory management techniques
- Compared memory management techniques such as Ballooning, Swapping and transparent page sharing
- Enhanced performance evaluation of each technique by carrying out various test cases on Virtual machines