ATHARVA DESHPANDE

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EDUCATION

University of Maryland, College Park, MD — ***GPA- 3.50***
M.S., Telecommunication Engineering — ***(Expected May 2017)***
University of Pune, India — ***GPA-3.8***
B.E., Electronics and Telecommunication Engineering — ***(May 2014)***

SKILLS

LANGUAGES: **Python, Java, C, MATLAB, HTML, SQL, JavaScript, CSS**
SOFTWARE: **Eclipse, MySQL Workbench, Cisco Packet Tracer, Putty, MS Office**
PROTOCOLS: TCP/IP, DNS, DHCP, UDP, RIP, ARP, HTTP, BGP, LAN/WAN, Ethernet, VLAN

TECHNICAL EXPERIENCE

Programmer Analyst Trainee, Cognizant Technology Solutions — **Chennai, India**

- Developed and tested a web application using Java, Html and Tomcat server. ***(November 2014 – March 2015)***
- Created user login, published MySQL database and created a user friendly interface to query the data.
- Managed a team of 4 members and interacted directly with the client to gather project requirements.

IT Support, SKNCOE — **Pune, India**

- Provided thorough support and problem resolution for staff in college. ***(January 2013-May 2014)***
- Was responsible for setting up the projectors, installing software and hardware and troubleshooting the computer systems.

PROJECTS

Client- Server Secure Socket Layer (SSL) programming (Python) ***(May 2016-present)***

- Implemented a client program to communicate with a server using sockets.
- Mathematical operations were performed on inputs (Integers/Operators) and returned a solution to server.
- A secret flag was returned for computing all possible mathematical expressions successfully.
- Currently, implementing a Secure Sockets Layer (SSL) to create a secure communication between client and server.

Cellular Simulation of a Base Station in Python ***(April 2016-May 2016)***

- Developed a simulator in **Python** for a 3-sectored base station to analyze the network performance using cellular parameters such as number of channels, received signal strength, propagation loss, call blocks, hand off failures.
- Analyzed their effect on system utilization and Grade of Service and produced a statistic report on call drops, successful calls, successful hand-offs to understand system reliability.

UDP based Client-Server application using Java Socket Programming ***(November 2015)***

- Developed a networking application in **Java** consisting of a transmitter and a receiver that can ensure reliable data transfer and cryptographic authentication on top of UDP's unreliable communication services using RC4 algorithm and socket programming.

Image Stitching for Situation Awareness in Battle Management System ***(June 2013 –May 2014)***

- Implemented and compared two Image Stitching algorithms SIFT and SURF using **MATLAB** which compensated critical disadvantages of RADAR, LINAR such as jamming, interference.
- The project demonstrated a seamless connection using feature extraction, feature matching with two or more images having common overlapping part to get a higher resolution and 360 degree panoramic image.
- Won 2nd prize in the IET (Institute of Engineering and Technology) project competition out of 40 teams.

RELATED COURSEWORK

- Networks and Protocols
- Computer Networks
- Interactive Programming in Python
- System Programming and Operating Systems
- Digital Communications
- Computer Architecture