OMKAR H. SALUNKHE

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EDUCATION

University of Maryland   College Park, MD | Expected May 2018
MS, Telecommunications Engineering   **GPA - 3.76**

Coursework: Networks and routing protocols, Network traffic and application performance analysis, Network design and configuration lab (Juniper Networks), Telecommunications marketing and management, AWS/PCS System implementation

University of Mumbai   Mumbai, India | May 2016
BE, Electronics and Telecommunications Engineering   **CGPA - 3.6**

Coursework: Computer networks, Object oriented & structured programming, Operating systems, Internet communication

SKILLS AND CERTIFICATIONS

Skills: JAVA, Python, HTML, CSS, JavaScript, SQL, C, Mbed C, MATLAB, Ajax, HTTP, RIP v1/ v2, OSPF, BGP, IGRP, TCP/IP, UDP, ARP, DNS, DHCP, Junos OS, Linux, Django, Varnish, Apache, Eclipse IDE, Riverbed modeler, Cisco packet tracer, jMeter, Wireshark, Mentum planet, Poseidon, Excel analytic solver

Certifications: 1. Python 3 Essential Training (Lynda.com)   2. Learning Python and Django (Lynda.com)
                 3. ARM University Program Training Course   4. Summer Industrial Training in Embedded Systems

RELEVANT PROJECTS

Web-caching using Varnish Cache   http://omkarhs.pythonanywhere.com/   College Park, MD | May 2017
· Deployed a Django powered website blog on a local Django server and a remote python based server. Also, hosted a simple web page on a VM's Apache server & implemented caching of user requested pages in these servers, using a Varnish cache
· Executed load and performance analysis of this client-cache-multiple-server setup using jMeter and Wireshark captures

Configuration and Design of Juniper Networks   College Park, MD | February 2017
· Configured static routing as well as protocol-based routing on network topologies designed using Juniper M-series routers
· Set Firewall settings on Data link, Network, and Transport layers and increased the routing efficiency with routing policies

Web Designing using HTML, CSS and JavaScript https://omkarhs.github.io/Restaurant/website/ College Park, MD | Feb 2017
· Developed a responsive restaurant website statically in HTML & CSS using various Media queries and Bootstrap framework
· Built a web application using JavaScript, utilizing Ajax to fetch JSON data from a server to dynamically write HTML

JAVA Application: Reliable Data Transfer using User Datagram Protocol (UDP)   College Park, MD | January 2017
· Designed a client-server model implementing socket programming using JAVA APIs and UDP
· Provided reliable data transfer over UDP's unreliable services by application of necessary timeouts and retransmission mechanisms and implemented integrity check for secure communication over the network

AWS/PCS Mobile Network Deployment Planning   College Park, MD | October 2016
· Deployed GSM, LTE & WCDMA base stations in Mentum planet software for Washington, D.C. and nearby suburbs
· Modified the coverage using azimuth shifts, electrical tilts and power changes on individual antenna sectors as required
· Applied Poseidon analysis on the deployment to obtain AWS to Microwave interference results

CONFERENCES AND PUBLICATIONS

Implementation of Wireless Noticeboard using Bluetooth Low Energy   Mumbai, India | April 2016
Published and presented a paper on Wireless Noticeboard, in a state level project competition (IETE's DJ Spark), explaining the programming of a PSoC4 BLE board using Mbed C language, implementing its LCD and Bluetooth interfacing

EXPERIENCE

Graduate Experience   University of Maryland | Aug 2016- Present
· **Technician:** As a tech-crew staff maintained electronic theatrical instruments for stage projects at Performing Arts Center
· **Student Assistant:** Helped in store maintenance and assisted students with textbooks at Barnes & Noble Book Centre

Undergraduate Experience   Mumbai, India | Aug 2013 – May 2016
· **The Institute of Electronics and Telecommunications Engineering:** As a Creative Head of the committee, organized and publicized many cultural festivals & technical events including a State Level Project Competition called IETE's DJ Spark
· **Cultural and Technical Festivals:** Volunteered in managing college festivals and organizing annual technical events
· **Sports:** Intramural Soccer player and interdepartmental bronze medalist in 100-meters sprint for undergraduate college