

Parag Salgaonkar

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Education

- **Master of Science** – University of Maryland Expected May 2018
Telecommunications Engineering - 3.67/4
- **Bachelor of Engineering**– University of Mumbai May 2016
Electronics and Telecommunications Engineering - 8.11/10

Technical Skills

- **Programming:** Java, JavaScript, C, C++, Python.
- **Networking:** TCP/IP, UDP, IPv4, IPv6, DNS, HTTP, FTP, OSPF, BGP.
- **Web Development:** HTML5, CSS3, PHP, Bootstrap, MySQL, Drupal CMS.
- **Tools:** GitHub, Eclipse, Wireshark, VPN, PuTTY, Mentum Planet, MATLAB.
- Proficient with Windows, Linux and Mac OS operating system environments.
- Comprehensive experience with Microsoft Office Suite, Adobe Photoshop and Flash.

Work Experience

- **Aarya Technology** – Summer Internship May – Aug 2013, Dec 2014 – Jan 2015
 - Streamlined and re-engineered the Home Automation systems offered by the company which resulted in 20% increase in customer satisfaction ratings for the product.
 - Called by the company again, to work with the same clients to customise the system as per their requirement.
 - Solved technical queries of the employees and assisted the Technical Supervisor in troubleshooting problems.
 - Designed a website for a local school using Bootstrap template, customised the pages using CSS and JavaScript.

Projects

- **Distributed Networking application for client-server data transfer using UDP sockets in Java** Dec 2016
 - Developed a distributed networking application in Java to establish reliable data transfer operation between a client and a server using UDP sockets (classes DatagramPacket and DatagramSockets and their methods).
 - Implemented Integrity Check, timeout and retransmission functionalities for the data packets to compensate for the unreliability of the UDP services.
- **AWS/PCS Cellular Base Station Deployment over Washington DC and its Suburbs** Dec 2016
 - Strategically deployed 25 base stations in the area and provided GSM coverage using Mentum Planet.
 - Provided LTE coverage to the University of Maryland campus using 4 base stations to ensure a minimum data rate of 2.5 Mbps, and computed interference analysis due to neighbouring microwave links using Poseidon.
- **File Transfer Application for Secure Banking using Visual Cryptography** March 2016
 - Developed a program for securely sharing sensitive information such as financial transactions and personal data between a bank and its users by embedding the data inside a host file/image.
 - Improvised the existing cryptography technique by adding time constraint over the encryption which resulted in having an added layer of security.
- **MATLAB test simulation for Pulse Width Modulation (PWM)** Dec 2013
 - Improvised the efficiency of Pulse Width Modulation code by 15% to optimise the power required and performance throughput of applications like DC motors and low power micro-controllers.

Honors and Accomplishments

- Organized a marathon for the “Teach for India” initiative – a national non-profit organization in India.
- Received a scholarship of INR 80000 from University of Mumbai for being in the top 1% of all the successful students.
- Stood 1st in the intra-school Chess competition and won two Gold medals in 100m sprint.

Relevant Courses

- Networks and Protocols I and II
- Computer Communication and Telecom Networks
- Wireless Networks
- RF modelling and antennas
- Optical Communication and Networks
- Internet and Voice Communication
- Structured Programming Approach
- Microwave and Radar Engineering