SHREYA SHETTY

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EDUCATION

University of Maryland, College Park, MD — Expected Graduation Date: May 2017
Master of Science in Telecommunications Engineering — **GPA: 3.95**
Relevant Coursework: Cloud Computing, Algorithms and Data Structures, Intelligent Wireless Technologies (Internet of Things, Intelligent Transport Systems, Smart Grid Systems), Decision Support Modelling, Telecommunications Marketing Management, Networks and Protocols.

University of Pune, Pune, India — Graduation Date: May 2013
Bachelor of Engineering, Electronics and Telecommunications Engineering — **GPA: 3.8**

PROFESSIONAL EXPERIENCE

Social Solutions Global Inc. — **Baltimore, MD**
Software Engineering Intern, Product Development — **May 2016 – Aug 2016**

- Assisted with Development and Testing of ASP .NET solutions using C#, HTML and JavaScript programming.
- Worked with Engineering Services towards Maintaining, troubleshooting and testing the cloud based networking infrastructure.
- Developed and tested reports using SAP Business Objects, Crystal Reports and SQL stored procedures.
- Performed Unit, Regression, Load, Performance and Sanity testing for AWS based deployments in US, Canada and Europe.
- Assisted with Automation Testing of the entire **"Batch Upload Module"** on Telerik Test Studio using C# scripting.

Deloitte Consulting — **Bengaluru, India**
Business Technology Analyst — **Jan 2014 – Jul 2015**

Consulted for a major American healthcare client with their Electronic Medical Record infrastructure as an EPIC Systems Consultant.* and got trained on using ASP .NET framework with C# scripting, HTML, CSS, JavaScript & SQL for Website Development.

- Worked with clients and team-members to diagnose problems and resolve issues in their Claims Processing workflow.
- Trained new members to understand the workflows and complex Business Rules Engine builds.
- Reduced turnover time from 1 hour to 5 minutes per day by automating the daily dashboard generation process in Excel.
- Migrated the project's data visualization from Excel to Tableau.

* **EPIC Certified in Resolute Hospital Billing Administration, Claims, Electronic Remittance, Single Billing Office**

Tata Institute of Fundamental Research — **Narayangaon, India**
Research Intern — **Jul 2013 – Dec 2013**

- Designed, implemented and tested a **"Packetized Beamformer"** which is used for **pulsar research** at GMRT (world's largest array of radio telescopes at meter wavelengths) for this project in collaboration with **University of California, Berkeley**'s CASPER group (Center for Astronomy Signal Processing and Electronics Research) using Simulink, C and Python.

PROJECTS

- **Python Application:** Designed a Real Time simulator of a Cellular Base Station in Python to analyze GSM network performance based on parameters like Handoff Margin, No of channels, Different Path Losses (Propagation, Antenna Discrimination, Fading)
- **Kalman Filter with Tuning:** Developed and tested a Kalman filter in MATLAB for object tracking by Multisensory Data Fusion.
- **UDP Socket Programming using Java:** Developed a client-server application in Java to establish reliable data transfer while using the unreliable UDP protocol by building the reliability into the application itself by means of timeouts, retransmissions and integrity checks. Implemented the RC4 encryption algorithm to ensure data security.
- **LTE & GSM Network Deployment:** Designed and implemented a mock deployment of a 30 base station GSM & 4 base station LTE Network in the Washington DC and College Park areas respectively using Mentum Planet.
- **Optical Character Recognition and Face Recognition:** Designed systems for Optical Character Recognition and Face Recognition in MATLAB using concepts of Image Processing, Statistics, Fuzzy Computing, Computer Vision, Machine Learning.
- **Industrial Automation System Prototype:** Developed a prototype of an industrial automation system to show the real time processing of object separation which minimizes human interference using Computer Vision, Digital Image Processing, Microcontrollers and Artificial Neural Networks.

TECHNICAL SKILLS

- Programming Languages: C, C#, Java, Python, HTML, JavaScript , CSS, ASP .NET
- Network Protocols: TCP/IP, UDP, DNS, DHCP, RIP, OSPF, EIGRP, BGP, HTTP, SNMP, ICMP
- Wireless Technologies: GSM, CDMA, HSPA, UMTS, OFDM, LTE, WiMax
- Reporting & Testing Tools: SAP Business Objects, Microsoft SQL server Report Builder, Telerik
- Software's: Markstrat, Mentum Planet, Matlab, Eclipse, Simulink, SQL Server, MySQL, Tableau, R Studio