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SUPRIYA PRAMOD DESHPANDE

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Education

Master of Science in Computer Science **Stony Brook University** 3.50 **Sept 2015 – Dec 2016**

Related Course Work

• Design & Analysis of Algorithms • Operating Systems • Artificial Intelligence • Computational Biology • Network Security

B.E. in Computer Science **People's Education Society School of Engineering (PESSE)** 79.10/100 **Sept 2010 – Jun 2014**

Skills

- **Languages:** Java, C, C++, Python
- **Development Tools:** Spring MVC, Eclipse, netstat, tcpdump, Git
- **Web/Frameworks:** Apache Solr, REST, Apache Tomcat
- **Operating Systems:** Linux/Unix, Windows
- **Database:** MySQL
- **Methodologies:** Agile

Work Experience

Altice USA | Software Developer Intern | *New York, USA* Jun 2016 – Aug 2016

- Implemented an application in Java to design and manage articles and newsletters for Newsday website using Sailthru APIs.
- Worked on Apache Solr to perform fast text search for newsletters using real-time indexing.
- Designed and developed the application components in an Agile environment utilizing a test driven development approach.

Samsung R&D Institute | Software Engineer | *Bangalore, India* Jul 2014 – Jul 2015

- Responsible for API design and development of a B2B fleet management solution based on Samsung-Internet of Things (S-IoT) cloud platform using REST. The project was awarded 1st position in Samsung Tech Fair – Nipun 2014.
- Solely responsible for designing, maintaining and enhancing the dashboard for S-IoT usage statistics.
- Performed rigorous unit testing during development phase and achieved 73% code coverage.

Academic Projects

Network Security (C) | *Stony Brook University* Spring 2016

- Developed "*DNS packet injector and detector modules*" which perform and detect Man on the Side (MotS) attacks respectively.
- Developed a "*plugboard proxy*" for adding an extra layer of protection to publicly accessible TCP services by encryption.

Kernel Programming (C) | *Stony Brook University* **-** *Prof Erez Zadok* Fall 2015

- Implemented "*Anti-Malware File System*" – a stackable file system (similar to wrapfs) which checks for malicious pattern inside the file and quarantines them.
- Implemented "*Asynchronous Job Execution*" system call for processing I/O intensive processes like encryption/decryption. Implemented a callback mechanism using Netlink sockets to update the user with the status of the given task.

Artificial Intelligence (Python) | *Stony Brook University* Fall 2015

- Designed and developed a Naïve Bayesian Classifier for "*classifying Handwritten numerals*".
- Implemented the game "*Peg Solitaire*" using two different search methods: Iterative Deepening Search and A* Search.

Academic Publications

- Digital Restoration of Archaeological Heritage | http://bit.ly/1P69Rwa
- Snow Classifier based Rapid Face Detection and Recognition Method | http://goo.gl/MIdCY9

Honors and Achievements

In-house Shark Tank | ***1st Position*** | *Altice USA*

- Worked on designing a business model to leverage Altice's WiFi hotspots for providing small businesses in and around the tri-state area with semantic data analysis on customer trends and footfall.