SUPRIYA PRAMOD DESHPANDE

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Education

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

Related Course Work

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

B.E. in Computer Science | **PES School of Engineering (PESSE)** | 79.10/100 | **Sept 2010 – Jun 2014**

Skills

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

Work Experience

Altice USA (formerly Cablevision Systems Corporation) | Software Developer Intern | *New York* Jun 2016 – Aug 2016

- Implemented applications in Java to design and manage content for Newsday website.
- Integrated Sailthru Customer Retention Cloud APIs for easier functioning and better customer experience.
- 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

DNS packet injector and detector (C) | *Stony Brook University* Spring 2016

- Developed "*DNS packet injector and detector modules*" which perform and detect Man on the Side (MotS) attacks respectively.

Plugboard Proxy (C) | *Stony Brook University* Spring 2016

- Developed a proxy using sockets with encryption for adding an extra layer of protection to publicly accessible TCP services.

AMFS: Anti-Malware File System (C / Kernel Programming) | *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.
- Supported an input/output control (ioctl) for dynamic update and consistency maintenance of signature database.

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

- Implemented an "*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.

Classification of Handwritten Numerals (Python) | *Stony Brook University* Fall 2015

- Designed and developed a Naïve Bayesian Classifier for classifying Handwritten numerals.
- The feature set consisted of a binary indicator for each pixel – 1 for foreground and 0 for background.

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.
- Built custom dashboards for different businesses based on real-time customer dataset.