

Sphoorti Joglekar

Seeking Summer Internship in Systems Domain

EDUCATION

- 2018 **Carnegie Mellon University, PA (US)**
MS IN INFORMATION NETWORKING
- 2014 **University of Pune, India**
BE IN COMPUTER ENGINEERING
GPA 3.87/4.00

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ACADEMIC PROJECTS

JULY 2016

DYNAMIC MEMORY ALLOCATOR

15-213 Introduction to Computer Systems

Implemented a malloc package that allocates memory from the heap and manages free blocks by coalescing segregated free list and a quick free list for smaller block requests.

JULY 2016

MULTI-THREADED CACHING WEB PROXY

15-213 Introduction to Computer Systems

Implemented a concurrent web proxy server handling HTTP/1.0 GET Requests for static web pages.

JULY 2016

TINY SHELL

15-213 Introduction to Computer Systems

Implemented a tiny shell for job control by handling SIGINT, SIGCHLD and SIGTSTP.

JULY 2013 – MAY 2014

DROIDNET

Undergrad Thesis

Developed a framework to bring the versatility of cloud to embedded systems by controlling and processing the collaboratively collected sensor data to attain specific objectives. The project investigated the distributed system for increase in efficiency, reliability and a reduction in operating costs.

WORK EXPERIENCE

JULY 2014 – JULY 2016

MOJO NETWORKS

Member of Technical Staff, Pune, India

Developed device driver features for various 802.11 QCA chipset like

- Admission Control and QoS for ViVo Applications
- Sigma Certification for Hotspot 2.0
- OSS counters for network monitoring and performance analytics
- Logging kernel panics for troubleshooting and debugging

OPEN SOURCE INVOLVEMENT

DECEMBER 2014 – MARCH 2015

GNOME OPW

oVirt intern

Developed moVirt, an Android application for monitoring oVirt datacenter using the oVirt REST API to communicate with the oVirt engine and allowing the user to see/start/stop VMs, connect to them via VNC and SPICE and also monitor the health of the VMs using the built-in trigger mechanism.

NOVEMBER 2013 – SEPTEMBER 2014

The OpenStack Foundation

Contributor

Contributed patches to Devstack, Neutron and Zaqar projects of OpenStack. Patches typically included writing unit test case for vxlan in ip library, fixing documentation errors and enhancing code readability.

TECHNICAL SKILLS

LANGUAGES C, Shell Scripting, Python, C++

TOOLS GDB, Git, Mercurial, OpenStack, Android SDK, oVirt, Emacs

COURSEWORK

15-213 Introduction to Computer Systems

14-642 Fundamentals of Embedded Systems

14-741 Introduction to Information Security

18-746 Storage Systems

PRESENTATIONS, PUBLICATIONS AND AWARDS

- Conducted a session on Contributing to Open Source at Gnunify '15
- Published Smartphones and off the shelf hardware for 3D scanning in mobile robots research paper in IJSER Jan 2014 edition.
- Received ADA Initiative Scholarship to attend OS-HWA 2014, in Rome, Italy.