

# Sphoorti Joglekar


*Seeking Summer Internship in Systems Domain*

## EDUCATION

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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

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NOVEMBER 2016

### CLOUDFS

*18-746 Storage Systems*

Implemented a hybrid cloudfs with deduplication, caching, crash recovery and snapshot support.

SEPTEMBER 2016

### myFTL

*18-746 Storage Systems*

Implemented a flash translation layer for emulated SSD using dynamic mapping and wear leveling.

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 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

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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

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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

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LANGUAGES C, Shell Scripting, C++, Python

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

## COURSEWORK

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**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

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- 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.