

Kaustubh Gondhalekar

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Looking for internship opportunities in Summer 2017 in the field of **Software Engineering**.

EDUCATION

North Carolina State University

Master of Computer Science, May 2018 (Expected) (GPA 4.0/4.0)

Birla Institute of Technology and Science, Pilani, India

B.E (Hons.) Computer Science, Aug 2016 (GPA 8.45/10)

EXPERIENCE

Software Engineering Intern, @WalmartLabs

Bangalore, India – July - Dec 2015

Automated cloud deployments for **OpenStack** Cloud at Walmart. It handled everything from powering on the servers to exposing cloud APIs in the end.

- Developed a **fully automated cloud deployment solution** from scratch which configured OpenStack Cloud in Walmart Datacenter.
- It deployed a **working cloud setup in under 4 hours** reducing the work of a couple of teams.

Android Development Intern, L&T infotech

Navi Mumbai, India – May - July 2014

Designed and Implemented a transport-sharing application.

- Integrated **Google Locations API** and developed a chat feature using the **XMPP protocol**.

PROJECTS

XINU OS (Kernel Programming)

- Implemented **scheduling policies** - Exponential Distribution and Linux-Like Scheduling (Kernel v2.2) in the XINU Kernel **which prevented starvation** of a process occurring in the default scheduler.
- Built a **system-call trace functionality** into the kernel.

Dynamic QoS for Multimedia Streaming Apps over SDN

- Ensured Quality-Of-Service for multimedia traffic based on **packet classification** of IP TOS field.
- Incorporated **dynamic routing** influenced by current network state.
- Deployed network test-bed in GENI using **Floodlight controller** and **OpenVirtualSwitches**.

SimpleDB Database System

- Implemented **FIFO replacement policy** for Buffer Management and **Undo-Redo algorithm** for Recovery Management.
- **Improved buffer search** using HashMaps over the earlier sequential traversal.

SKILLS

Programming Languages - Java, C, C++, Python, Bash

Technologies worked with - Linux, Git version control, OpenStack, Hadoop, Bootstrap

KEY COURSES

Operating Systems, Internet Protocols, Design and Analysis of Algorithms, Software Engineering

HOBBIES

Running - Ran a half-marathon. Planning to run another one soon!