

SHREYAS GOVINDARAJU

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EDUCATION

MAY 2018 M.S., Computer Science
University of Southern California, Los Angeles GPA: 3.56/4.00

MAY 2015 B.Tech, Computer Science and Engineering
National Institute of Technology Karnataka, India GPA: 8.27/10.00

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript, PHP, Shell Scripting
Web Technologies: Node.js, Webapp2, Django
Applications : Jenkins, Google App Engine, Heroku, MySQL, NoSQL, Prototype
Others: HTML5, CSS, JQuery, Ajax, Bootstrap.

WORK EXPERIENCE

MAY '17 - AUG '17 | Software Development Intern, **Tintri** (Mountain View, USA)
- Worked in Platform QA team to build a test automation tool for Tintri VM Storage appliance.
- Developed a tool to highlight known fingerprints failures from the filtered combined logs.
- Deployed application as a cron job for periodic execution for several tests.
- UI was built to display these results for further analysis and to be able to report in BugZilla.
Tech stack | **Python, Django, Bootstrap, JQuery**

JULY '15 - JULY '16 | Software Engineer, **Samsung Research Institute Bangalore** (Bangalore, India)
- Developed I/O modules in C++ on an automated caching software tool Autocache.
- Developed web user interface for the Autocache stand-alone application with Prototype framework.
- Collaborated in design and implementation of flushing cached data into secondary storage drives.
- Helped in setting up debug environment for kernel debugging in RHEL.
- Setup continuous integration tool Jenkins to automate build and unit testing for the project.
Tech stack | **C++, Jenkins, Visual Studio, Git**

MAY - JULY '14 | Software Development Intern, **Samsung Research Institute** (Bangalore, India)
- Built an user interface in Java Swing to automate testing on multiple devices
- Tests can be run in parallel and faster along with report generation.
- Developed a lab management tool integrating Samsung SQL database along with IIS Server
- Helped in reserving lab or conference rooms within the company for meetings or discussions.
Tech stack | **Java Swing, Bootstrap, MySQL, IIS, PHP.**

MAY '13 - JULY '13 | Engineering Intern, **Bilent Private Services Limited** (Bangalore, India)
- Designed, developed and maintained an e-commerce website called Kyash
- The application was able to support over 2000 daily transactions.
- Managed python based database(NDB Datastore) deployed in Google Appengine.
Tech stack | **Python, webapp2, Google NDB**

RELEVANT PROJECTS

- **Weenix kernel | C, Weenix kernel, Qemu simulator**
 - Designed and developed features such as processes, threads, context switching and synchronization primitives
 - Worked on Unix based Weenix Operating System.
 - Developed a Virtual File System (VFS) to provide common interface between kernel and other file systems.
 - Developed Virtual Memory (VM) providing an abstraction of address space for user processes.
- **Traffic Simulator | C, POSIX Pthreads**
 - Simulated a traffic shaper which transmits packets asynchronously controlled by a token bucket filter.
 - POSIX Pthread Multi-threading used within a single process for parallel executions.
 - All statistics inter-arrival time, service time, average number of packets in a queue are displayed.
 - The standard deviation for time spent for a packet along with packet/token drop probability are shown.
 - The program executes for both input parameters and trace driven mode.