

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) <ul style="list-style-type: none">- 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) <ul style="list-style-type: none">- 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) <ul style="list-style-type: none">- 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) <ul style="list-style-type: none">- 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.