

# SHREYAS GOVINDARAJU

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## EDUCATION

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EXPECTED MAY 2018	M.S., Computer Science <b>University of Southern California</b> , Los Angeles	GPA: 3.56/4.00
MAY 2015	B.Tech, Computer Science and Engineering <b>National Institute of Technology Karnataka</b> , India	GPA: 8.27/10.00

## TECHNICAL SKILLS

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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

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MAY '17 - AUG '17	Software Development Intern, <b>Tintri</b> ( Mountain View, USA) <ul style="list-style-type: none"><li>- Worked in Platform QA team to build a test automation tool for Tintri VM Storage appliance.</li><li>- Developed a tool to highlight known fingerprints failures from the filtered combined logs.</li><li>- Deployed application as a cron job for periodic execution for several tests.</li><li>- UI was built to display these results for further analysis and to be able to report in BugZilla.</li></ul>
Tech stack	<b>Python, Django, Bootstrap, JQuery</b>
JULY '15 - JULY '16	Software Engineer, <b>Samsung Research Institute Bangalore</b> ( Bangalore, India) <ul style="list-style-type: none"><li>- Developed I/O modules in C++ on an automated caching software tool Autocache.</li><li>- Developed web user interface for the Autocache stand-alone application with Prototype framework.</li><li>- Collaborated in design and implementation of flushing cached data into secondary storage drives.</li><li>- Helped in setting up debug environment for kernel debugging in RHEL.</li><li>- Setup continuous integration tool Jenkins to automate build and unit testing for the project.</li></ul>
Tech stack	<b>C++, Jenkins, Visual Studio, Git</b>
MAY - JULY '14	Software Development Intern, <b>Samsung Research Institute</b> ( Bangalore, India) <ul style="list-style-type: none"><li>- Built an user interface in Java Swing to automate testing on multiple devices</li><li>- Tests can be run in parallel and faster along with report generation.</li><li>- Developed a lab management tool integrating Samsung SQL database along with IIS Server</li><li>- Helped in reserving lab or conference rooms within the company for meetings or discussions.</li></ul>
Tech stack	<b>Java Swing, Bootstrap, MySQL, IIS, PHP.</b>
MAY '13 - JULY '13	Engineering Intern, <b>Bilent Private Services Limited</b> ( Bangalore, India) <ul style="list-style-type: none"><li>- Designed, developed and maintained an e-commerce website called Kyash</li><li>- The application was able to support over 2000 daily transactions.</li><li>- Managed python based database(NDB Datastore) deployed in Google Appengine.</li></ul>
Tech stack	<b>Python, webapp2, Google NDB</b>

## RELEVANT PROJECTS

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- **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.