

SHREYAS GOVINDARAJU

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EDUCATION

EXPECTED 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, Shell Scripting
Web Technologies:	Node.js, Webapp2, Django
Applications :	Jenkins, Google App Engine, Heroku, VMWare, OpenGL, Octave.
Others:	Databases, Machine Learning, Artificial Intelligence and Algorithms.

WORK EXPERIENCE

MAY '17 - AUG '17	Software Development Intern, Tintri (Mountain View, USA) <ul style="list-style-type: none">- Built an automation tool to highlight known fingerprint failures from test suites.- Different log files are filtered with known patterns and time frame for further analysis.- Deployed application as a cron job for periodic execution of several tests.- Developed an end to end web application to accommodate easy analysis and reporting of bugs.
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 called Autocache.- Created a web interface for the Autocache stand-alone application with prototype framework.- Discussed implementation plan of flushing cached data into secondary storage drives.- Assisted in setup of 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 '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

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- **AI Messenger Bot** | github.com/Shreyas-vgr/Messenger-Bot | **Node.js, Facebook Messenger Platform**
 - Built a messenger bot to learn about professors' or universities in US.
 - Professors' or university ratings/comments/quality are obtained through the RateMyProfessor API.
 - Facebook messenger platform used enables bots to converse with users through apps and pages.
 - Custom intent messages replied to user was developed in Node.js.
 - **Slack Bot** | github.com/Shreyas-vgr/Slack-Bot | **Node.js, Wit.ai, Google API**
 - Developed a resilient, micro-service based natural language aware bot for Slack app.
 - NLP API, wit.ai was invoked with updated query parameters based on the application.
 - Implemented geocoding and time calculations and also monitoring services.
 - **SAT Encoding Solver** | github.com/Shreyas-vgr/SAT-Encoding | **Python , AI**
 - Implemented a SAT solver to find a satisfying assignment for any given CNF sentences.
 - Utilised PL and DPLL resolution algorithms to find solutions for the problem.
 - Leveraged WalkSAT algorithm to find random solution for given SAT problem.
 - **Weenix kernel** | **C, Weenix kernel, Qemu simulator**
 - Worked on unix based weenix operating system.
 - Designed and developed features such as processes, threads, context switching and synchronization primitives.
 - Developed a Virtual File System (VFS) to provide common interface between kernel and other file systems.
 - Implemented Virtual Memory (VM) providing an abstraction of address space for user processes.