

SHREYAS GOVINDARAJU

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EDUCATION

MAY 2018	University of Southern California , Los Angeles M.S., Computer Science <i>Coursework: Machine Learning, NLP, AI, Operating Systems, Databases and Algorithms.</i>	GPA: 3.56/4.00
MAY 2015	National Institute of Technology Karnataka , India B.Tech, Computer Science and Engineering	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 2017 - AUG 2017	Software Development Intern, Tintri (Mountain View, USA) - Built an automation tool to highlight known fingerprint failures from test suites. - Analyzed different log files which are filtered with known patterns and time frame for analysis. - Developed an end to end web application to accommodate easy analysis and reporting of bugs. Tech stack Python, Django, Bootstrap, JQuery
JULY 2015 - JULY 2016	Software Engineer, Samsung Research Institute Bangalore (Bangalore, India) - 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. - Led in the setup of debug environment for kernel debugging in RHEL. - Setup continuous integration tool Jenkins to automate build and unit testing for projects. Tech stack C++, Jenkins, Visual Studio, Git
MAY 2013 - JULY 2013	Engineering Intern, Bilent Private Services Limited (Bangalore, India) - Designed, built and maintained an e-commerce website called Kyash - Built an application which was able to support over 2000 daily transactions. - Managed python based database(NDB Datastore) deployed in Google Appengine. Tech stack Python, webapp2, Google NDB

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.
- Organised professors' or university ratings/comments/quality through RateMyProfessor API in templates.
- Customized facebook messenger platform to enable bots to converse with users through apps and pages.
- Customized intent messages to be replied to user.
 - **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.
- Integrated NLP API wit.ai, to invoke updated query parameters based on 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 problems.
- Leveraged WalkSAT algorithm to find random solution for given SAT problem.
 - **Weenix kernel** | **C, Weenix kernel, Qemu simulator**
- Modified an unix based weenix operating system.
- Designed and built 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.