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) - 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, Djano, 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 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) - 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

- **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.