Shreyas Govindaraju

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Education

May 2018 **University of Southern California**, Los Angeles — GPA: 3.56/4.00
M.S., Computer Science
Coursework: Machine Learning, NLP, AI, Operating Systems, Databases and Algorithms.

May 2015 **National Institute of Technology Karnataka**, India — GPA: 8.27/10.00
B.Tech, Computer Science and Engineering

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

- **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.