MICHAEL GEROW

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Professional Summary

A National Merit Scholar Computer Engineering and Computer Science student at USC with over four years of programming experience and over a year of experience working in a professional setting including working on IT applications/tools and embedded set top box applications. I am pursuing a career in software development.

Education

- **University of Southern California**—Los Angeles, CA
  Majoring in Computer Engineering and Computer Science
  - University GPA: 3.5, Major GPA: 3.9, Presidential Scholar
  - Projected Graduation Date: May, 2014

Technical Summary

- **Languages:** C, Ruby, C++, Java, Go, Python, Verilog, LaTeX, Motorola 68000 Assembly, Clojure, Perl
- **Libraries/Frameworks:** Ruby on Rails, OpenGL, ROS (Robot Operating System), OpenCV, Berkeley Sockets
- **Systems/Tools:** Linux and Unix variants (Debian, Ubuntu, Solaris, FreeBSD), OSX, Windows 2000/XP/Vista/7, SVN, Git, Mercurial, MongoDB, MySQL, Eclipse, Multithreaded Environments (Using Agents), Puppet, CouchDB, Apache, SLURM, Request Tracker

Professional Experience

- **Information Sciences Institute**—Marina del Rey, CA
  Student Worker August 2013–Present
  - Work on fitting virtual disk images into the current FreeBSD based disk imaging system
- **SpaceX**—Hawthorne, CA
  Linux IT Intern May 2013–August 2013
  - Working with Puppet backend to create a distributed report collection and node classification service in order to allow these activities to continue even if links between locations are down
  - Developing a service to analyze and get statistics on tickets for the RT ticketing system
  - Developing tools to help analyze high performance computing cluster usage on a SLURM cluster
- **DIRECTV**—El Segundo, CA
  Software Engineering Intern May 2012–August 2012
  - Embedded systems work with set top box UI in Java
  - Creating a tool to increase productivity when working with set top box assets
- **Nelson Auto Group**—Tulsa, OK
  Information Technology Intern May 2011–August 2011, December 2011–January 2012
  - Creating a system to effectively and efficiently keep copies of all physical media needed for the company's computer and technical systems
  - Creating a system to allow managers to easily access recorded calls through a web interface using PHP to access Asterisk servers

Projects Outside of School

- *hnfs*: A FUSE filesystem to mount the news site Hacker News as a filesystem. `https://github.com/gerow/hnfs`
- *gnome-shell-google-calendar*: Fork of script to allow Google Calendar integration into GNOME 3. Added ability to use within GNOME 3 under Ubuntu. `https://github.com/gerow/gnome-shell-google-calendar`
- *LittleNote*: An iPhone app for sending notes to your significant other. Working on backend implemented as a Ruby on Rails application. `https://github.com/kcbarry/LittleNoteWeb`
- *Goose*: Database migration tool for Go. Added sqlite3 support. Currently working on support for applications that wish to target multiple database types. `https://bitbucket.org/liamstask/goose`
- *rest-client*: A REST library for ruby. Created patch to fix issue with headers being automatically renamed when they shouldn't be. `https://github.com/rest-client/rest-client`

Club Experience

- **USC Autonomous Underwater Vehicle Team**—Los Angeles, CA
  Member of Software Team September 2010–May 2012
  - Writing C++ code for robot running within the ROS environment under Ubuntu.
  - Gained experience working with vision processing using OpenCV.