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 nearly a year of experience working in a professional setting including working on internal IT applications and embedded set top box applications. A two year member of the USC Autonomous Underwater Vehicle team competing in the AUVSI RoboSub event.

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

Professional Experience

- **DIRECTV**—El Segundo, CA
  Software Engineering Intern May 2012–August 2012
  - Embedded systems work with set top box UI in Java
  - Created 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
  - Created a system to effectively and efficiently keep copies of all physical media needed for the company's computer and technical systems.
  - Created a system to allow managers to easily access recorded calls through a web interface using PHP to access Asterisk servers.

Club Experience

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

Projects Outside of School

- **Projects Created/Forked**
  - *Boop*: Lightweight Go server for running commands in response HTTP actions. Very good for throwing together quick solutions when needed. `https://github.com/gerow/boop`

  - *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`
  - *btcreg*: A service for aliasing bitcoin addresses agains email addresses. Mainly created in order to play around with creating database driven web applications using Go and MongoDB.
    `https://github.com/gerow/btcreg`
  - *This Resume*: Yes, even this resume is written in LaTeX. `https://github.com/gerow/resume`

- **Projects Done With Others**
  - *LittleNote*: An iPhone app for sending notes to your significant other. Worked on backend side implemented as a Ruby on Rails application. `https://github.com/kcbarry/LittleNoteWeb`

- **Projects Contributed To**
  - *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`

Relevant coursework

- ***In Progress:*** **Computer Science 271**—Discrete Mathematics
- ***In Progress:*** **Electrical Engineering 450**—Networking
- ***In Progress:*** **Electrical Engineering 457**—Computer System Organization
- **Computer Science 201**—Software Development
- **Electrical Engineering 357**—Computer Architecture
- **Compuer Science 200**—Object-Oriented Programming
- **Computer Science 480**—Computer Graphics
- **Electrical Engineering 201**—Introduction to Digital Circuits