John Myrda
Software Engineer and Hardware Hacker

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Experience

Cloudmark San Francisco, CA
Software Development Engineer in Test Oct 2015 - July 2018

- Wrote Python and bash based tools to automate software release workflow.
- Designed a web based tool to accelerate smoke test process.
- Wrote automated tests in a custom Python test framework.
- Set up multi-system test environments with Docker and VMs to run tests and analyze performance.
- Investigate bugs using C source code, REST APIs, a Python test harness, and Linux debugging tools.
- Write and execute test plans for a high performance email and mobile messaging platform.

Wells Fargo San Francisco, CA
Automated Regression Analyst Feb 2015 - Oct 2015

- Built RESTful APIs for web tools with JAX-RS/Jersey, Jackson, and SQL.
- Architected web tools for the regression testing team with Java and the Google Web Toolkit (GWT).
- Analyzed failures of Selenium tests for Wells Fargo mobile websites and fixed errors in test scripts.

UIUC Engineering IT Urbana, IL
Helpdesk IT and Linux Specialist Jan 2013 - August 2014

- Provided user support for Linux issues in the College of Engineering.
- Identified hundreds of legacy Linux systems and migrated them to UIUC maintained Linux distribution.
- Maintained documentation for Engineering IT Linux distributions and common technical tasks.
- Managed training and schedules for 12 Help Desk student staff members.
- Created web tools with PHP, MySQL, and JavaScript to monitor printer supply levels, access warranty information, and track equipment check-outs.

Education

University of Illinois Urbana-Champaign December 2012
Bachelor of Science in Engineering Physics
Minor in Computer Science

Skills

Programming Languages: Python, C, Java, C++, JavaScript
Technical Skills: PCB design, Soldering, Arduino & AVR Microcontrollers, Git & SVN

Projects

Countdown Timer
Converted an "Easy Button" into a configurable and resettable countdown timer using 7 segment displays, a TI MSP430 microcontroller, and firmware written in C.

Lightbox Sign
The lightbox can act as a whiteboard and served as the sign for a Burning Man camp. I wrote an LED pattern library to use with Arduino to control the lights. The lights display a sequence of entrancing animated patterns. I wrote a library of patterns and light controller software to use with this project and similar LED projects.

Midi Drum Lights
Built a multi-device light controller for colorful real-time visualizations of an electronic drum kit using MIDI , 2 Arduino devices, and the i2c protocol.