

# JOHN MYRDA

## Software Engineer and Hardware Hacker

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### EXPERIENCE

#### Cloudmark

*Software Development Engineer in Test*

*San Francisco, CA*

*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

*Automated Regression Analyst*

*San Francisco, CA*

*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

*Helpdesk IT and Linux Specialist*

*Urbana, IL*

*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.

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### EDUCATION

#### University of Illinois Urbana-Champaign

Bachelor of Science in Engineering Physics

Minor in Computer Science

*December 2012*

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### SKILLS

**Programming Languages:** Python, C, Java, C++, JavaScript

**Technical Skills:** PCB design, Soldering, Arduino & AVR Microcontrollers, Git & SVN

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### PERSONAL 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.

#### Connected Globes

6 clusters of 24 LEDs connected by long 3-wire cables and diffused with Chinese lanterns. I designed a custom PCB for the controller. I extended my pattern library with more animations that better suit the ring-like geometry of this fixture.

#### 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.