

## EDUCATION

### Case Western Reserve University

#### B.S.E. Computer Engineering, GPA: 3.79

December 2013

- Dean's High Honors, Dean's Honor List
- Eta Kappa Nu Honor Society

## EXPERIENCE

### Yelp, *Software Engineering Intern*

San Francisco, CA

January 2013 - August 2013

Revenue Team: Developing infrastructure related to payment accounts, billing, collections, discounts, and promotions.

- Increased sales by developing promotions that business owners can redeem
- Bug fixes, scaling, internal applications and services
- Developed and maintained batch reports used by the Financial Team

### Codonics, *Software Engineer Co-op*

Middleburg Heights, OH

May 2011 - August 2012

Safe Label System: Key developer in the software design of the Safe Label System, a product designed to reduce medical mistakes in the operating room.

- Developed wired/wireless network management software using Java and BASH, leading to the first major sale of the Safe Label System
- Designed and developed major software features to assist in the administration of prepared drugs.
- Collaborated with Massachusetts General Hospital IT staff to integrate the Safe Label System with their secure EAP-TLS wireless network
- Established, configured, and executed EAP-TLS and PEAPv0-MSCHAPv2 authentication servers on Ubuntu and Windows Server for testing and development with automated EAP-TLS certificate generation
- Developed a restricted shell environment for Linux using C++, which restricted users to predefined commands and scripts

### U.S. Department of Energy: Apps For Energy Challenge

Washington D.C.

May 22, 2012

Budget It Yourself: Developed an Android application, as part of a team, that allows users to monitor and budget their home energy usage using Green Button data provided by utility companies.

- Awarded 2nd in Best Student Application, Cash Prize, Energy Datapalooza Exhibitor
- Designed a website in Python and jQuery that allows users to upload their Green Button data to an Android smartphone: <http://www.budgetityourself.com>
- Developed the backend, database, and asynchronous tasks for the mobile application
- Published as a free application on Google Play

### CWRU Information Technology Services, *Software Engineer*

CWRU

October 2009 - April 2011

Metrics: Designed a web portal used by departments to record metrics data which could be displayed on a graph. Different items could be plotted, viewed in tables, and be made private or public.

- Setup and maintained a Linux web server to increase the efficiency of testing code before deployment
- Utilized HTML, PHP, MySQL, jQuery, Flash, LDAP, Central Authentication Service
- Moodle: Maintained a custom Moodle (web-based learning management system) installation, used as an alternative to Blackboard
- Programmed custom integration plug-ins for campus lecture recordings and other services
- Created a course/user management wizard to allow for batch enrollment, which increased efficiency

### Advanced Game Design, *Programming Team Leader*

CWRU

August 2010 - December 2010

Kalotai: Developed a GPS/Location based Android game with a team of programmers and artists.

- Led and managed a 9-person team to develop an Android based GPS game
- Developed a custom game engine using bit blitting and a Service (application component)
- Analyzed performance metrics and optimized code to increase performance by 40%
- Presented game to EA for evaluation and feedback

## SKILLS

Experienced: Python, MySQL, Java

Used in the past: HTML, PHP, Groovy, Grails, C++

Interests and Curiosity: Django, Cocoa

## ACTIVITIES

Phi Kappa Tau, Alpha Delta Chapter (Webmaster)

2010 - 2012

Eta Kappa Nu (President)

2011 - 2012

Spectrum (President, Treasurer)

2008 - 2011