

# EMERY GERNDT OTOPALIK

## **TETRASCIENCE**, Cambridge, MA

*Tetrascience is an internet-of-things start-up bringing cloud software to the scientific laboratory by using the Tetrascience device to connect existing lab equipment to the web.*

Software Development Intern

January – February 2016

Developed a Node.js module that converts proprietary data sets to useful visual representations that are displayed in a client dashboard or generated PDFs

Wrote Bash scripts that made the Tetrascience device compatible with 2G/3G network/Wi-Fi devices on boot, enabling the device to be used in more locations

Designed over 30, science-themed, user-selected profiles for differentiating devices and allowing clients to personalize their Tetrascience device

## **MIT APP INVENTOR**, MIT's Center for Mobile Learning

*MIT App Inventor is a visual programming language, implemented with Java, JavaScript, Scheme, and Google's Blockly library. It is geared towards beginner programmers with the purpose of building fully functional, advanced Android applications.*

Student Developer

January 2015 – January 2016

Designed and built debugging features across the browser/Android live-development link using a combination of Java, JavaScript, and Scheme

Position funded through the Wellesley College Research Program and NSF grants

## EDUCATION

**WELLESLEY COLLEGE**, Wellesley, MA; B.A. Computer Science, September 2012 - May 2016

**UNIVERSITY OF OTAGO**, Dunedin, NZ, Semester Abroad; Computer Science, July 2014 – November 2014

**Relevant Coursework:** Data Structures, Algorithms, Theory of Programming Languages, Computer Systems, Database Theory & Applications, Languages & Automata, Computational Biology, Computer Security, Combinatorics & Graph Theory, Number Theory, and Fundamentals of Engineering

**Proficient in:** Java, JavaScript, C, HTML, CSS, Bootstrap, Unix/Linux, Scheme/Lisp

**Experience in:** Python, Ruby, Node.js, jQuery, PL/SQL, JFC/Swing, Foursquare API, Blockly, D3, Racket

## LEADERSHIP/SERVICE

### **WELLESLEY WHIPTAILS ULTIMATE FRISBEE EXECUTIVE BOARD**

As President (January 2015 – May 2016), organized practices and tournaments and liaised between the 60-person club and Wellesley College Administration

As Treasurer (September 2014 – May 2015), managed team money and oversaw Fundraising and Merchandise Chairs

### **FIRST YEAR MENTOR**

September 2015 – May 2016

Mentored First-Year students during orientation week and the following semesters, providing support and guidance

### **COMPUTER SCIENCE TUTOR**

*Inventing Mobile Apps*

September – December 2015

Tutored Wellesley College students using MIT App Inventor to develop Android apps

### **PCs FOR PEOPLE**

*Volunteer/Assistant Manager*

June 2016 – Present

Refurbish and repair donated PCs and offer low-cost Internet for assistance-qualified individuals

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