

# 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. So far, App Inventor has served nearly 3 million users, with about 100,000 active users each week.*

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

## **COMPUTER SCIENCE TUTOR**

*Inventing Mobile Apps*

September – December 2015

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

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## **LEADERSHIP**

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

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

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

### **FIRST YEAR MENTOR**

September 2015 – May 2016

I was selected to mentor First Year students during orientation week and the following semesters to provide support and guidance.

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## **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, Fundamentals of Engineering

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

**Experience with:** Python, Ruby, Node.js, jQuery, MySQL, JFC/Swing, Foursquare API, Blockly

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