

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 several 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

PCs FOR PEOPLE, Mankato

Local Director of Operations

June 2016 – Present

Manage all systems including refurbishing process, supply control, and quality assurance

Seek and apply for funding opportunities

Supervise interns and volunteers

Promote community outreach

WELLESLEY WHIPTAILS ULTIMATE FRISBEE EXECUTIVE BOARD

President (January 2015 – May 2016)

Treasurer (September 2014 – May 2015)

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

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