Alex Fuhr

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Objective

An internship, co-op, or part time position in hardware or software development during the school year or summer

Education

The Ohio State University **Expected Graduation: May 2017**
4.0 GPA, B.S. Electrical and Computer Engineering

Experience

BloomReach – Engineering Intern (Mountain View, CA) **May-August 2014**
Working on a web application to assist the engineering department with data extaction from websites.

Zakta — Developer Intern (Blue Ash, OH) **June-August 2013, October 2013-April 2014**
Utilized the existing Zakta libraries and authentication methods as well as JSON, XML, RSS, and HTML parsing to write and test Java programs that connect search results from various search engines to Zakta's search engine.

Wexner Medical Center — Software Developer (Columbus, OH) **January 2014-present**
Volunteer position: Wrote Java-based plugins for ImageJ to assist the image processing department.

Deltalambda LLC – Consultant (Columbus, OH) **February 2014-March 2014**
Created and documented a functional prototype of the company's idea to show to potential investors.

Technical Skills

- C#, Java, Python, C, and C++ syntax, data structures, and common libraries
- Version control using Git
- Web design using HTML, CSS, Javascript, JQuery, and AngularJS
- HTML parsing and OAuth as well as RSS, XML, and JSON-based APIs
- Development in both Windows and Linux environments and command lines
- Microcontroller-based electronics and ICs with Arduino, Raspberry Pi, and TI Launchpad
- Web development with Ruby on Rails, Apache/PHP, and Node.js
- Android development, common libraries, and Google APIs

Relevant Coursework

- **Current:** Fundamentals of Engineeing for Honors II: Robotics, Linear Algebra, Software I: Components
- **Past:** AP Physics: Electricity & Magnetism, AP Calculus BC (Calc I and II), AP Computer Science (intro to Java and Java data structures), Fundamentals of Engineering for Honors: Advanced Programming (C/C++ and MATLAB), Calc III

Activities

- **Engineering/Computer Science:** Open Source Club, Engineers for a Sustainable World, Collegiate Web Developers Group, Electronics Club
- **Music:** Collegiate Winds, Latin Jazz Combo, Jazz Workshop Ensemble, Jazz Lab Ensemble

Honors

- **First Place Head to Head:** The Ohio State University Fundamentals of Engineering for Honors robot competition
- **Designations:** OSU Fundamentals of Engineering Honors Program, AP Scholar with Distinction
- **Scholarships:** Maximus Scholar, Engineering Dean's Award, Hendrix Scholar, Mu Alpha Theta

Projects (more information and source on Github)

- **FEH Proteus Robot:** Designed, programmed, tested, and documented a fully autonomous robot designed to peform a series of tasks in a fictional candy factory. The robot won in the competition's elimination round.
- **Find the World:** An Android application where users can hide markers in a Google Map and then share the map so other users can try to find them.
- **DAE Sickness?:** A Django application that offers patients information on their condition from both medical resources and other patients.
- **Crowdsourced Restaurant Menu Application:** A Rails application that allows users to document and review menu items for restaurants that might not otherwise provide an online menu.
- **Arduino-Controlled Christmas Lights:** Used an Arduino to control an EL wire and and RGB LED strip simultaneously with display to an LCD screen and input from buttons and potentiometer.