

Michael Abbott

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Education

The Ohio State University

Bachelor of Science: Computer Science and Engineering

Expected 2017

GPA: 3.426

- Honors Engineering Program
- Dean's List Member
- Coursework: Data Mining, Parallel Processing, Neural Networks
- Minor in Business

Skills

Programming Language Experience

- Proficient: Java (7 years), C/C++ (3 years), SQL (2 years), .NET (2 years)
- Preferred: Python, JavaScript, Ruby
- Familiar: HTML/CSS/SASS, BASH, PHP, MATLAB

Work Experience

Battelle Memorial Institute

Software Development Co-op

May 2016-August 2016

JS | C# | Python | SQL

- Played a fundamental role in a project that applied machine learning algorithms and signal processing to a new product that could distinguish between authentic and malicious, counterfeit electronic parts
- Created a RESTful platform over a SQL Server database, utilized by a variety of applications, web interfaces, and machine learning scripts
- Developed a cutting edge web interface in Angular that leveraged internal machine learning capabilities and displayed them to end users in a way that no other anti-counterfeiting technologies on the market are capable of doing

The Ohio State University

Teaching Assistant

August 2015-December 2015

Java

- Responsibilities include grading, assisting with lab, and answering questions

Siemens PLM Software

Software Development Co-op

January 2015-August 2015

Java | .NET

- Reduced the run time for a legacy .NET application by over 99%, from more than 40 minutes to less than 5 seconds
- Developed an application to automate and streamline menial tasks that diverted approximately 40% of the team product manager's time by integrating issue tracking software and scrum management software
- Halved the number of server calls being made by a fundamental GWT widget while also increasing its functionality
- Enhanced several legacy utilities involved in migrating data from excel files to an Oracle database

Franklin County Emergency Management and Homeland Security

Assistant to the IT Manager

May 2014-August 2014

Java | PHP | SQL

- Automated the work of dozens of volunteers
- Developed an application to direct staff through the flood management procedure
- Developed software to monitor water levels and track floods throughout central Ohio

Personal Projects

CloudScape Videogame

April 2014-Current

Java | Ruby | SQL

- A turn-based cross-platform strategy game written with LibGDX
- Players can create their own levels in game and play against the artificial intelligence
- Published to the Google Play Store
- Download page for latest stable build: <http://cloudscape.site/>

Group Projects

OHI/O Hackathon

October 2014

Java

- Placed in the top 10 out of 60 teams
- Won the Best Demo award
- Programmed an Android app called "TrafficClock," a smart alarm clock that adjusts itself based on traffic and weather patterns by leveraging the Google Maps API

Fundamentals of Engineering Honors Robotics Competition

Spring 2014

C | C++

- Developed software which allowed a robot to run the operations of a factory
- Reduced time required for each test run by over 95%, from minutes to seconds, by programming a GUI that allowed the robot path to be adjusted without changing the code