**Michael Abbott**

http://michaelabbott.io 7280 Black Abbey Ct. Dublin, OH 43017 C: 614-361-9319 abbott.221@osu.edu

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| **Education** | |
| **The Ohio State University**  *Bachelor of Science: Computer Science and Engineering*   * Honors Engineering Program * Coursework: Data Mining, Parallel Processing, Neural Networks, Databases, Web Applications | Expected 2017  **GPA: 3.426**   * Dean’s List Member * 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** May 2016-August 2016  *Software Development Co-op* 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** August 2015-December 2015  *Teaching Assistant* Java   * Responsibilities include grading, assisting with lab, and answering questions   **Siemens PLM Software** January 2015-August 2015  *Software Development Co-op* 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** May 2014-August 2014  *Assistant to the IT Manager* 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   * A turn-based cross-platform strategy game written with LibGDX **Java | Ruby | SQL** * 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   * Placed in the top 10 out of 60 teams **Java** * Won the Best Demo award * Programmed an Android app called “TraffiClock,” 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   * Developed software which allowed a robot to run the operations of a factory **C | C++** * 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 | |