**Michael Abbott**

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| **Education** | |
| **The Ohio State University**  *Bachelor of Science: Computer Science and Engineering*   * Graduated with Honors in Engineering * Minor in Business | August 2013-May 2017  **GPA: 3.426**   * Dean’s List |
| * Coursework: Data Mining, Parallel Processing, Neural Networks, Databases, Web Applications | |
| **Skills** | |
| **Programming Languages**   * Proficient: Java (9 years), Python (3 years), JavaScript (5 years), Ruby (3 years) * Preferred: Scala (1 year), C/C++ (5 years), SQL (5 years), .NET (2 years) * Familiar: PHP, MATLAB, HTML/CSS, BASH   **Frameworks**   * akka+play+lagom, scikit-learn, Ruby on Rails, AngularJS+Bootstrap, LibGDX, .NET, CUDA, OpenMP, Flask, Android | |
| **Work Experience** | |
| **Capital One** June 2017-Current  *Software Engineer* **Scala | AngularJS | AWS**   * Wrote the authorization service for Capital One’s data lake, which integrated with LDAP and AWS’s RDS * Created several dynamic and highly modular front-ends for our rapidly changing microservices * Developed concurrent microservices in scala with akka, play, and lagom for managing access to Capital One’s data lake of tens of thousands of datasets containing terabytes or petabytes of sensitive data, used by tens of thousands of users * Created a proof of concept for detecting credit card fraud with a machine learning model and real, anonymized data   **The Ohio State University** August 2016-May 2017  *Teaching Assistant* **JS | Ruby on Rails**   * Graded projects and provided feedback on assignments for an upper-level team-based course * Projects included static websites, web scrapers, and dynamic web applications written in Rails * Graded assignments that cumulatively determined 40% of a student’s final grade   **Battelle Memorial Institute** May 2016-August 2016  *Software Development Co-op* **AngularJS | Flask | SQL**   * Helped develop the leading anti-counterfeiting technology on the market for integrated circuits * Created a RESTful backend service over a SQL Server database and integration points for our machine learning scripts * Developed a dynamic web interface in AngularJS for displaying and comparing the results of the machine learning scripts   **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 over 40 minutes to under 5 seconds * Automated and streamlined 40% of my dyslexic product manager’s job, reducing most of it down to a series of dropdowns * Halved the number of server calls being made by an important GWT widget while also increasing its functionality; users in Japan no longer had to wait 2 minutes for a webpage to load | |
| **Projects** | |
| **Warren Buffett 9000** Spring 2017-Current   * An experimental algorithmic stock trading project **scikit-learn** * Uses a set of 125 support vector machines trained on several decades of data derived from feature engineering with fundamental analysis, technical analysis, and macro-economics   **ShellPharm** January 2017-May 2017  *Founder & Chief Executive Officer* **AWS | C | BASH**   * Successfully negotiated a venture capital deal with Lumos Innovation, doubling ShellPharm’s evaluation to $400,000 * Designed and implemented a cybersecurity product that offered more convenient and commoditized concolic execution of executable files by leveraging AWS EC2 instances   **CloudScape Videogame** April 2014-Fall 2016   * A turn-based cross-platform strategy game written with LibGDX **Java | Ruby on Rails | SQL** * Published to the Google Play Store * Available for desktop here: http://cloudscape.site/ * Players can create their own levels in game and play against the artificial intelligence | |