Eric Ma (www.amcire.me)
Home Address: 16 Lexington Drive, Acton, MA 01720
Email: exm2@cornell.edu Phone: 978-677-1234

Summary of Skills

- Experience with machine learning, including using scikit-learn and TensorFlow libraries
- Strong skills in Object-Oriented Programming (Java and Python), Functional Programming (OCaml), Git/GitHub; experience with Android programming and webpage design with HTML, CSS, and JavaScript
- Highly self-motivated and well organized; excellent work ethic; works well with others

Education

Cornell University, College of Engineering (Ithaca, NY) Graduation date: May 2017 GPA: 3.907/4.000
Bachelor of Science: Major in Computer Science, Minor in Engineering Statistics
Related Courses: OO Programming and Data Structures, Machine Learning for Intelligent Systems, Discrete Structures, Data Structures and Functional Programming, Digital Logic and Computer Organization, System Programming, Networks, C++ Programming, Probability Models and Inference, Algorithms, Databases, Artificial Intelligence, Natural Language Processing, Machine Learning for Data Science, Operating Systems

Acton-Boxborough Regional High School (Acton, MA) Sept. 2010 – Jun. 2014 GPA: 3.91/4.00

Work Experience

Software Engineer Intern, Google (Cambridge, MA) May 2016 – Aug. 2016

- Built a TensorFlow model to predict when a Newsstand user will use the app next, which will help determine when Newsstand should send sync requests to users
- Created a Java Map-Reduce pipeline to generate examples from account information and session logs
- Wrote Bash and Python scripts to analyze the examples to search for unexpected patterns
- Constructed a Python TensorFlow model that can be exported to serve predictions for clients

Teaching Assistant for Discrete Structures, Cornell University (Ithaca, NY) Jan. 2016 – Present

- Hold office hours, answer students' questions online, and grade assignments

Technical Intern, The MITRE Corporation (Bedford, MA) Jun. 2015 – Aug. 2015

- Created a messaging bridge for the Air Force Command and Control Air Operations Suite (C2AOS) to relay messages from an older system to a newer system
- Sent and received messages via ActiveMQ, HornetQ, and Qpid brokers to Air Force's messaging nodes
- Implemented the bridge by using JMS publish-and-subscribe topics to create Apache Camel routes

Programming Projects (https://github.com/amcire96)

- An NBA Daily Fantasy Sports Predictor: Python program which scrapes NBA players' statistics using lxml and predicts using a scikit-learn model trained using the statistics (**code**: http://bit.ly/2bN5Y6J)
- An Android app that allows the user to configure device settings (volume, Wi-Fi, Bluetooth) at specified times on specified days of the week (**code**: http://bit.ly/1PP0Bg6)
- A prime-factoring application implementing MapReduce using OCaml
- A single-cycle microprocessor using Verilog
- A shipping game that utilized Dijkstra's algorithm and a Min Heap to maximize its score
- Personal website designed with Bootstrap, using HTML, CSS and JavaScript (**code**: http://bit.ly/1hFMChk)
- Implemented a Java-based Tetris AI Player; built a Tetris t-shirt (**code**: http://bit.ly/1hFMeiP, **video**: http://bit.ly/1Qcz7Sp)
- Other games: Minesweeper, LineShifter, Python "Game of 24" (**code**: http://bit.ly/1VAOEyj)

Interests and Activities

- Intramural Soccer and Volleyball Team Captain, Cornell University (2014-2016)
- REACH Tutor, Cornell University: Volunteered at an afterschool program for elementary school kids (2014)

Awards and Honors

- Cornell University Dean's List (Fall 2014, Spring 2014, Fall 2015, Spring 2015)
- National Merit Scholarship Finalist (2014)
- National AP Scholar (2014); AP Scholar with Distinction (2014); AP Scholar Award (2013)
- Boston Herald All-Scholastic; Boston Globe All-Scholastic; Lowell Sun All-Scholastic (2014) (Volleyball)