Eric Ma (www.amcire.me)
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Objective

Computer Science major seeking a software engineering summer internship

Summary of Skills

- Strong Object-Oriented Programming skills using Java; Functional Programming experience using OCaml; Source Control with Git/GitHub; experience with Android programming and webpage design with HTML, CSS, and JavaScript
- Experience with Java Message Service (JMS) API, JBoss Fuse, and ActiveMQ/HornetQ/Qpid brokers
- 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
Bachelor of Engineering, Computer Science — GPA: 3.837/4.000
Related Courses: Object-Oriented Programming and Data Structures, Discrete Structures, Data Structures and Functional Programming, Digital Logic and Computer Organization, Machine Learning for Intelligent Systems, System Programming, Networks, C++ Programming, Probability Models and Inference

Acton-Boxborough Regional High School (Acton, MA) — Sept. 2010 – Jun. 2014
Related Courses: AP Java, BC Calculus, Honors Physics, AP Chemistry, AP Psychology, AP Biology, AP Statistics — GPA: 3.91/4.00

Work Experience

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)
- Worked with supervisor to connect to Air Force's messaging nodes
- Sent and received messages via ActiveMQ, HornetQ, and Qpid brokers
- Implemented bridge by using JMS publish-and-subscribe topics to create Apache Camel routes

Tutor, Watt and Movsesian families (Acton, MA) — Sept. 2013 – Jun. 2014

- Met weekly with middle-school students to review concepts and assignments in math, science, and Spanish

Programming Projects

From 2014 To 2015:

- Created 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)
- Implemented MapReduce in a prime-factoring application using OCaml in FP class
- Created single-cycle microprocessor using Verilog in Digital Logic and Computer Organization class
- Created shipping game that utilized Dijkstra's algorithm and a Min Heap to maximize its score in OOP class
- Personal website with HTML, CSS and JavaScript using Bootstrap (**code:** http://bit.ly/1hFMChk)

Before 2014:

- Implemented a Java-based Tetris AI Player; built a Tetris t-shirt (**code:** http://bit.ly/1hFMeiP, **video:** http://bit.ly/1Qcz7Sp)
- Other games implemented: Minesweeper, LineShifter, Python "Game of 24" (**code:** http://bit.ly/1VAOEyj)

Interests and Activities

- Cornell Intramural Soccer and Volleyball Team Captain (2014)
- Cornell REACH Tutor: Helped out at an afterschool program for middle and elementary school students (2014)
- High School Varsity Volleyball Captain (2014)

Awards and Honors

- 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)
- Massachusetts Dual County League Player of the Year (2014) (Volleyball)
- Alex d'Arbeloff Scholarship recipient (2014)

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