Eric Ma (www.amcire.me)
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Objective

Computer Science major seeking a summer job or internship

Summary of Skills

- Highly self-motivated and well organized; excellent work ethic; works well with others
- Strong Object-Oriented Programming skills with Java; Functional Programming experience with OCaml; Source Control with Git; experience with Android programming and webpage design with HTML, CSS, Bootstrap, JavaScript
- Experience with Java Message Service (JMS) API, JBoss Fuse, and ActiveMQ/HornetQ/Qpid brokers

Education

Cornell University College of Engineering, Ithaca, NY GPA: 3.837/4.000
Expected Graduation Date: May 2018
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 GPA: 3.91/4.00
Graduation Date: June 2014

Work Experience

June 2015 – August 2015 Technical Intern The MITRE Corporation, Bedford, MA

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

September 2013 – June 2014 Tutor Watt family and Movsesian family, Acton, MA

- Tutored an 8th grade boy in pre-algebra math and a 7th grade boy in Spanish, Algebra 1 math, and Science

Programming Projects

From 2014 To 2015:

- Created Android App that allows the user to configure device settings (volume, Wifi, Bluetooth) at specified times on specified days of the week (**code:** https://github.com/amcire96/SettingsChanger)
- 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:** https://github.com/amcire96/Website)

Before 2014:

- Implemented a Java based Tetris AI Player; built a Tetris T-Shirt (**code:** https://github.com/amcire96/Java-TetrisAI, **video:** http://vimeo.com/77974020)
- Other games implemented: Minesweeper, LineShifter, Python "Game of 24" (**code:** https://github.com/amcire96/)

Interests and Activities

- Cornell Intramural Soccer and Volleyball Team Captain (2014)
- Cornell REACH Tutor: Helping 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'Albeloff Scholarship recipient (2014)

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