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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

June 2014

- Candidate for Bachelor of Science in Computer Science and Electrical Engineering.
- Relevant Coursework: Autonomous Robot Design Competition, Differential Equations, Computer Architecture, Signals and Systems, Introduction to Algorithms, and Introduction to Analog Circuit Design. Learning Mandarin Chinese.
- Cumulative Undergrad GPA: 4.0 (5.0 scale).

EXPERIENCE

Google Inc.

Mountain View, CA

Engineering Intern

June 2012 – Present

- Designed and implemented tools for debugging performance issues. Tools build on Perf, a Linux based hardware counter profiling tool, to organize and display multiple performance analysis reports.
- Evaluated back-end design options for incorporating internal and external tools into parsing Perf data reports while helping Google engineers identify bugs in existing tools.
- Built front-end interfaces for comparing and displaying regressions among multiple performance reports to Google engineers.
- Gained an understanding of hardware based performance analysis and compiler optimizations.

MIT Tangible Media Group

Cambridge, MA

Undergraduate Researcher

January 2011 – June 2012

- Collaborated with graduate and undergraduate students on new kiosk for PingPongPlusPlus (PPPP) Media Lab Project. Updated kiosk UI using Processing (open source programming language) and added camera support for interactive apps.
- Created interactive, graphical visualizations in Processing to display on a touch-sensitive Ping-Pong table. Visualizations included customizable templates for user-made graphics during game play. Table is currently on display at MIT Media Lab.
- Organized project documentation and contributed to website development using Python Django web framework and MySQL.

Undergraduate Practice Opportunities Program (UPOP)

Cambridge, MA

Student

Fall 2012 – June-2012

- Practiced networking and career development skills with experienced industry professionals, engineers, and scientist.
- Participated in group activities focused on team decision making, effective communication, and negotiation skills.

Lockheed Martin – Maritime Systems (Counter IED Systems)

Manassas, VA

College Intern

June 2011 – August 2011

- Self-led project to design and implement iOS apps for program.
- Created a multi-functional control and status display for Counter IED System. App included diagnostics of system and communication to all other app users logged onto system. Presented app to team at end of internship.
- Prototyped IETM app for current and future systems.
- Gained coding experience in Java and Objective C.

High School Intern

July 2010 – August 2010

- Organized and compiled bills of materials and block diagrams detailing all components of the system. Presented diagram and other materials to managers.
- Loaded firmware and tested SBC's (Single Board Computers).

LEADERSHIP

MIT Technique (Yearbook and Photography Club)

Cambridge, MA

Activities Chair

September 2011 - Present

- Coordinate club photographers with student groups and campus organizations to photograph student run performances and events for MIT Technique's yearbook publications.
- Photographs published in MIT Technique 2012 Yearbook.

RELEVANT SKILLS

Software: Programming experience in Java, Processing, Python, and (some) Objective C (Cocoa Applications). Familiar with source control and CPU counter based performance analysis. Website development experience using Python Django framework and (some) MySQL.

Hardware: Soldering and circuit building. Oscilloscopes.