

Education

Tufts University, Medford, MA

Bachelor of Science in Computer Science, Math (May 2015)

GPA 3.67, Dean's List 2011, 2012, 2013

Relevant Coursework: Programming Languages, Computational Biology, Machine Structure & Assembly Level Programming, Cryptography, Real Analysis, Algorithms, Advanced Functional Programming Seminar, Computational Theory (*in progress*), Computer Graphics (*in progress*)

Experience

Google, New York City, NY

Engineering Practicum Intern (May 2013 - August 2013)

- Worked with a partner and two mentors to develop a saving filters feature for the DoubleClick for Publishers team.
- Created the client-facing interface for the feature and implemented saving functionality in Java.

Tufts University, Medford, MA

Teaching Assistant (September 2012 - present)

- Taught hands-on programming labs to introductory CS students
- Held regular office hours to provide one-on-one assistance with programming projects.

Brain State Technologies, Bloomington, MN

Intern, Software Division (August 2012)

- Worked with a mentor to develop applications to assist in the retrieval, inspection, and update of XML based signal processing flow designs.
- Defined XML schema to bind application configuration parameters to Java objects (using Apache XMLBeans).

Intern/Senior Project, Software Division (May 2011)

- Worked with a small team to develop an up-sampling filter for a proprietary signal processing flow engine to align signal data from sources with varying sample rates.

Hackathons

Source code is available on GitHub: <https://github.com/marsella>

HackingArts (Sept 2013): Place different sounds around a circle to create musical loops that can be connected, harmonized, or turned into noisemakers. Wrote a web app called Looper to play with HTML5 Canvas and Javascript. <http://tinyurl.com/looperhack>

University Hacker Olympics (Sept 2013): Need to find out who is the reigning office ping-pong champion? Upload your scores from the Balls of Fury app and check out the Elo rankings online to see how you stack up. Developed Android app and logos.

PennApps (Sept 2013): Tired of wrangling cloud storage? Nimbus stripes files across all of your storage accounts so you don't have to worry about distributing them. Created a unified interface for storage APIs.

Skills

Languages: C/C++, Java, Python, some Standard ML, Javascript, Haskell, Scheme, XML, HTML/CSS

Tools: LaTeX, git, OS X, Unix/Linux, AutoCAD 2012

Leadership

Association of Computing Machinery, *president*, Tufts Orthodox Christian Fellowship, *president*, Tufts Hackathon, *organizer*