

## Education

**Tufts University**, Medford, MA

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

GPA 3.71, Dean's List 2011-2014

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

## Experience

**MIT Lincoln Laboratory**, Lexington, MA

*Summer Research Student (May 2014 - August 2014)*

- Developed end-to-end prototype for a cryptographically secure mechanism to allow users to authenticate to services from a single fortified device.

**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 and held regular office hours for one-on-one assistance
- Lead TA training sessions and small-group meetings throughout the semester to promote motivation and consistency in the TA community

**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.

*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 Javascript, Haskell, Scheme, Standard ML, XML, HTML/CSS

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

## Leadership

Computer Science Exchange, *president*

Tufts Hackathon, *organizer*

Technovation, *university mentor*

Orthodox Christian Fellowship, *president*

Tufts Jumbo Talk, *blogger*