Madeleine Golison

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EDUCATION

Tufts University   **Medford, MA, September 2012   December 2015**
- Bachelor of Science in Computer Science
- GPA: 3.69, Magna Cum Laude

University of Edinburgh   **Edinburgh, Scotland   Spring 2012**
- Gap year semester abroad

EXPERIENCE

Undergraduate Teaching Assistant   **Tufts University, Medford, MA   Fall 2015-Current**
- TA for "Introduction to Computer Science"
- Teach lab sections/office hours/supplementary workshops and grade homework assignments

Undergraduate Research Assistant   **Tufts University, Medford, MA   Current**
- Documentation Application: high fidelity prototype for a potential iOS app that would assist teachers and researchers in documenting students' work (especially on STEM projects).

Teaching Assistant   **Johns Hopkins Center for Talented Youth, Los Angeles, CA   Summer 2015**
- TA for "Fundamentals of Computer Science": introductory course for gifted and talented students ages 12-14.
- Covered binary/two's complement, boolean algebra, sorting algorithms, basic data structures, and graph theory.
- Developed lessons on programming in Scratch, basic coding conventions, human computer interaction, and web programming (different internet services and protocols, client-server relationship, and HTML/CSS).

Undergraduate Research Assistant   **Laboratory for Playful Computation, Medford, MA   Spring 2015**
- Assisted in testing the BlockyTalky project. The project is an ed tech tool kit that works with LEGO and Grove Pi.
- Tested the BlockyTalky tool kit in the classroom, tested new features, and created demos.

Undergraduate Research Assistant   **DevTech Research Group, Medford, MA   Fall 2013**
- Assisted in testing the ScratchJr project. ScratchJr a graphical programming language that allows young children to create games and stories. Children program using blocks that make their characters move.
- Assisted students in the classrooms (K-2) during beta testing.

SKILLS

Programming: C, C++, JavaScript, CSS, HTML, Python, Git

Languages: Elementary proficiency in Spanish and Italian

PROJECTS

C: Image compression/decompression. Created several modules, which included converting between RGB values and component video values and bit packing for storing pixel values.

Web: Created a "Marauders Map" which utilized the Google Maps API to store the location of a user and then retrieved the locations from the database and put points on the map. Originally sent the location to a database managed by the professor and retrieved the locations of all students and put them on the map.

ACTIVITIES & ATHLETICS

Varsity Swim Team   **Tufts University   Fall 2012   Present**
- NESCAC Finalist (2013, 2014, 2015, 2016)
- NESCAC All-Academic Team