

# Olivia Morgan MacDougal

27 Packard Avenue, Somerville, MA 0214

Email: [olivia.macdougal@tufts.edu](mailto:olivia.macdougal@tufts.edu)

Website: [www.oliviamacdougal.com](http://www.oliviamacdougal.com)

Phone: 314-387-7201

Portfolio: <https://github.com/olivaceously>

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## Education

**Tufts University**, Medford, MA

*Bachelor of Science in Computer Science*, expected May 2018

Dean's List – Spring 2016, Spring 2015, Fall 2015

Coursework: Mobile Development, Programming Languages, Web Programming, Machine Structure and Assembly Language Programming, Discrete Math, Data Structures, Calculus I and II, Intro to Linguistics, Latin American Literature, African Music Ensemble Kiniwe, Power Yoga

## Work Experience

**Computer Science Department, Tufts University**

Medford, MA

*Teaching Assistant*, Data Structures and Intro to CS

January 2016 – present

- Grade student's homework and projects coded in C++ weekly.
- Hold office hours and answer questions about data structures
- Help students learn to write and debug code for assignments.

*Introduction to Computational Design*

August 2015 – December 2015

- Taught introductory MATLAB weekly labs of 10-15 students.
- Assisted students with questions and problems.
- Created rubrics for and graded student's submitted lab and homework assignments.

**iD Tech Camp at Washington University in St. Louis**

St. Louis, MO

*Instructor*

June 2016 – August 2016

- Taught 1-week introduction courses in Scratch, Javascript and C++ to children ages 7-16.
- Assisted in final project development and other camp activities.

**Massachusetts Healthy Families Evaluation, Tufts University**

Medford, MA

*Data Collection Research Assistant*

August 2014 – May 2015

- Collaborated as part of a data collection team.
- Successfully engaged children during a standardized protocol administered in family homes.

## Skills

**Languages:** C++, C, MATLAB, HTML5, CSS, Javascript, Java

**Software:** Node.js, jQuery, Git, Unix Shell, Android Studio, Visual Studio Community 2015

**Operating Systems:** Windows 8 and 10, Linux Debian and Mac OS X

**Technologies:** Google Maps API, TripAdvisor API, Spotify API, MongoDB

**Foreign Language:** Spanish, fluent

## Projects

**Treble:** Android application using Spotify API, MongoDB

**Jeko:** Web application using express, Node.js, Google Maps API, Heroku server and MongoDB

**Daytripr:** Design and front-end development of road trip planning web application for Polyhack Hackathon Fall 2015 using Google Maps API and TripAdvisor API

## Leadership and Activities

- *JumboCode – Fall 2016:* Front-end mobile development and design for Tufts Admission project.
- *Tufts Mountain Club:* Caretaker of Tufts Lodge and hiking trip leader.
- *Tufts Wilderness Pre-Orientation Program:* Trip Leader (Fall 2016), Support Staff (Fall 2015).