

# Ashley Smith

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## Education

**Tufts University**, Medford, MA

Bachelor of Science in Computer Science, School of Engineering, May 2019

GPA: 3.64, Dean's List

**Union County Magnet High School**, Scotch Plains, NJ

Graduation: June, 2015

National Honor Society

## Experience

**Tufts University Teaching Assistant**

*January 2017 – Present*

- Graded homework assignment, lead labs, and held office hours for students in ES 2 (Introduction to Computing in Engineering) and COMP 11 (Introduction to Computer Science)

**Tufts Girls of Code Teacher/Organizer**

*October 2016 – Present*

- Organized free coding workshops for 20 middle school girls with a team of 6 people
- Instructed the girls on how to program, using MIT App Inventor 2 and processing
- Encouraged the girls to experiment with their programs and facilitated learning

## Projects

Image Compressor

*February 2017*

- Worked with a partner in C to compress an image to a third of its size and decompress it back to the original image

Igloo

*December 2016*

- Created a social network model that allows users to add connections and then find all their second-degree connections using Python

Megabites

*October 2016*

- Built a group food-ordering web application with a team of seven students at Tufts Polyhack Hackathon
- Used bootstrap to create the front-end of the application and combined it with the rest of the project

Morse Converter

*May 2016*

- Implemented a moving average filter and thresholding to convert Morse Code audio files into English text using MATLAB

## Relevant Courses

COMP 40 – Machine Structure and Programming

COMP 61 – Discrete Mathematics

COMP 15 – Data Structures

COMP 20 – Web Programming

COMP 11 – Introduction to Computer Science

## Skills

*Computer Languages:* C, C++, Python, HTML, CSS, JavaScript, Bootstrap, MATLAB

*Computer Programs:* AutoCAD, Inventor