

# EMILY TRAN

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## EDUCATION

**Tufts University, School of Arts and Sciences**

**Medford, MA**

Dean's List, Fall 2017 - Spring 2018 · *Bachelor of Science in Computer Science*, expected May 2021

*Relevant Coursework:* Data Structures · Machine Structure and Assembly Language Programming  
Discrete Structures · Algorithms

## EXPERIENCE

**Teaching Assistant** | *Girls Who Code Summer Immersion Program @ BlackRock*

**Jun 2018 - Aug 2018**

- Instruct 20 high school girls in Scratch Python, Arduino, web development, and data science daily
- Supervise and mentor two-week final projects to demonstrate the design-build-test cycle for their MVPs
- Foster computational thinking and communication skills to encourage pursuit of STEM interests

**Teaching Assistant** | *Tufts University Department of Computer Science*

**Jan 2018 - present**

- Hold office hours for 200 students in Introduction to Computer Science to debug and support student projects
- Lead weekly 2-hour labs to reinforce fundamental concepts and data structure implementations from lectures
- Grade homework assignments and exams in Python and C++ with individual feedback to boost understanding

**Web Developer** | *The Tufts Daily*

**Sep 2017 - present**

- Rebuild the website with HTML and CSS utilizing a UX style guide to replace dependency on Wordpress
- Improve stability of iPhone app using Swift and Xcode to make school newspaper more accessible

## PROJECTS

**Map The Money** | *[emilytran99.github.io/mapthemoney](https://emilytran99.github.io/mapthemoney)*

**Feb 2018 - May 2018**

- Built map in HTML, CSS, and D3 that showed the top 10 individual and corporate donors to U.S. senators
- Cleaned and reorganized data from the Center for Responsive Politics' public campaign finance disclosure API

## LEADERSHIP

**Speaker/Sponsor Organizer** | *Tufts Women in Tech Conference*

**Jul 2018 - present**

- Plan product management, cybersecurity, & POC women in tech workshops, and conduct outreach to sponsors

**Secretary** | *Tufts Women in Computer Science*

**May 2018 - present**

- Organize logistics for meetings and events, and streamline communication with the CS department

**Event Coordinator** | *ARROW: A Repository of Resources Offered to Women*

**Aug 2016 - Jun 2017**

- Cofounded annual tech conference introducing middle and high school girls to industry professionals

**Program Manager** | *City Smart Scholars at Exam Schools Partnership Initiative*

**Jun 2016 - Aug 2017**

- Oversaw free test prep program for low income students trying to take NYC high school entrance exams

## EXTRACURRICULARS

**Mentee** | *Oath #BuiltByGirls WAVE*

**Feb 2017 - present**

**Vice President** | *Hunter College High School Asian Cultural Society*

**Sep 2014 - Jun 2017**

**Student** | *Girls Who Code Summer Immersion Program*

**Jul 2015 - Aug 2015**

## SKILLS, ACTIVITIES, & INTERESTS

**Programming:** C++ | C | Python | HTML | CSS | Arduino | Java | Javascript

**Technical Tools:** Git | Unix | Photoshop | Valgrind

**Languages:** Chao Zhou | Latin | Mandarin

**Activities:** Chinese Students Association, Vietnamese Students Club

**Interests:** crossword puzzles, space exploration, the subway, cooking shows, photography, podcasts