Ben Machlin

Computer Science Engineer

✆ +1 908 967 8677
✉ benmachlin@gmail.com
🖥 benmachlin.com

Education

2018–2019 **M.S. Computer Science (Expected)**, *Tufts University*, Medford, MA.

2014–2018 **B.S. Computer Science**, *Tufts University*, Medford, MA.
3.3 GPA, Dean's List, Music Engineering Minor, Study Abroad: AIT Budapest

Experience

2017 - now **Computer Science Department**, *Teaching Assistant*, Tufts University.

- Lead students in weekly recitations, work through examples, field questions and explain complex concepts in understandable terms.
- Grade assignments, hold office hours, discuss teaching methods with the professor and other TAs, and work one on one with students.

Summer 2018 **Alarm.com**, *Software Engineering Intern*, Denver, CO.

- Created a graphing visualization tool for internal data structures to aid in comprehension and management of complex modules. Integrated into an Ember application.
- Constructed a full-stack OAuth2 authentication flow wizard that provided Alarm access to customer 3rd party data.

January - June 2018 **Persimmon Project (Startup Cryptocurrency Investment Fund)**, *Technical Consultant*, Remote.

- Designed, created and maintained a cross platform mobile application (using Ionic) for investors to track the portfolio, learn about investments, and receive updates.

Summer 2017 **Human-Robot Interaction Lab**, *Researcher*, Tufts University.

- Worked with a small team in creating and carrying out research in the field of creative thinking in robot planning.
- Developed interface between AI Planning modules and larger robot action codebase.
- Implemented AI planning algorithms and robot action components.

Skills

Languages JavaScript, Java, Python, HTML, CSS, C, C++, Processing, SQL

Software Photoshop, Illustrator, Windows, Linux, git, LaTeX, Android Studio, MS Office

Libraries & Frameworks Ionic, Spotify API, Ember, Chartist, networkx, sklearn, NodeJS, Heroku, Chart.js

Relevant Courses **CS:** Algorithms, Data Structures, Visualization, Data Mining, Mobile Dev. - Android, Database Systems, Web Development, Programming Languages, Complex Networks, Computation Theory
Other: Statistics, Probability, Music Recording & Engineering, Computer Tools for Musicians, Science & Engineering of Music, Electronic Music Instrument Design, Galactic Astrophysics

Interests

- Music Performance and Composition
- Visual & Generative Art
- Ultimate Frisbee
- Rock Climbing