

Ben Machlin

Computer Science Engineer

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Education

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

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

Experience

2019 - now **Alarm.com**, *Software Engineer*, Centennial, CO.

- Full stack software engineering tasks in the ASP.NET framework.
- Specializing in ZWave and HVAC technologies.

2017 - 2019 **Tufts Computer Science Department**, *Teaching Assistant*, Medford, MA.

- 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*, Centennial, CO.

- Created an Ember-integrated graphing visualization tool for internal data structures to aid in comprehension and management of complex modules.

Jan-Jun 2018 **Persimmon Project (Crypto Investment Fund)**, *Technical Consultant*, Remote.

- Designed, created and maintained a cross platform mobile application (using Ionic) for investors to track their 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, Python, C#, Java, C++, C, SQL, Processing

Software git, Visual Studio, Adobe CC, Atlassian, Android Studio, MS Office

Other HTML, CSS, bash, PowerShell, nltk, Ember, NodeJS, Spotify API, networkx, sklearn

Projects

- Basic database with buffer pool and blocking from scratch
- Spotify album visualization web tool
- Generative art programs (Processing)
- Android music app for collaborative queuing and voting - full stack