

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, Music Engineering Minor.

Experience

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

- Full stack software engineering mostly in the ASP.NET framework. Deploying features, tests, and fixes to millions of homes around the world.
- Specializing in ZWave and HVAC technologies.
- Assisting in localization, automation, and internal tooling efforts.

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

- Led students in weekly recitations, worked through examples, fielded questions and explained complex concepts in understandable terms.
- Graded assignments, held office hours, discussed teaching methods with the professor and other TAs, and worked 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 applications.
- Assembled a portal for various third-party integration flows.

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

- Designed, created and maintained a cross platform Ionic mobile app for investors to track the cryptocurrency 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.
- Implemented AI planning algorithms and robot action components.

Skills

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

Software git, Visual Studio, Photosop, Illustrator, Atlassian apps

Other bash, PowerShell, p5/Processing, Ember, NodeJS, Spotify API, networkx, nltk

Projects

- Database with buffer pool and blocking from scratch
- Spotify album visualization web tool
- Generative art programs
- Android music app with collaborative queuing and voting - full stack