

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 - 2022 **Alarm.com**, *Software Engineer II*, Centennial, CO.

- Full stack software engineering mostly in .NET. Deploying features, tests, and fixes to millions of home security systems around the world.
- Specialized in Z-Wave and HVAC technologies.
- Designed and led large-scale energy efficiency projects.
- Assisted in localization, automation, internal tooling, and social committee 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 a visualization tool for internal data structures to aid in comprehension and management of complex applications.
- Assembled a proof-of-concept web portal for third-party integration flows.

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

- Designed, created and maintained a cross-platform Ionic app for investors to track a private 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#, Python, JavaScript, SQL, Java, HTML, CSS, C

Software git, Visual Studio, Rider, Photoshop, Illustrator, Atlassian apps

Misc. bash, PowerShell, p5.js/Processing, Ember, NodeJS, Spotify API, networkx, nltk

Other Fields woodworking, painting, organic farming, construction

Projects

- Database with buffer pool and blocking from scratch
- Spotify song data visualization web tool
- Custom tablature scrolling web app to help learning to play music
- Android music app with collaborative queuing and voting - full stack