

# 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 .NET. Deploying features, tests, and fixes to millions of home security systems around the world.
- Specializing in Z-Wave and HVAC technologies.
- Leading and supporting large-scale energy efficiency projects.
- 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 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++, C

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

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

## Projects

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