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

2022 - 2023 **Blazy Builds**, *Machinist and Assembly Tech*, Denver, CO.

- Built custom pieces for trade shows, events, shops, dispensaries, and more. Worked with a small team to deliver professional products made out of a variety of materials such as wood, vinyl, acrylic, glass, foam, and canvas.
- Independently operated multiple large CNC router machines. Designed and ran cuts, refined workflow, and performed machine maintenance.

2019 - 2022 **Alarm.com**, *Software Engineer II*, Centennial, CO.

- Full stack development - C#, .NET, ember, SSMS/SQL, Z-Wave
- Created, maintained, refactored, and tested software for home security and automation serving >10 million properties and customers.
- Led development for new features for energy savings, including smart thermostat scheduling to avoid peak energy cost periods, and region-wide programs to reduce electric grid load.
- Helped run team social committee and plan team-building events.

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.
- Designed and created 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 JavaScript, Python, C#, HTML, CSS, SQL, Java, C

Software git, VS Code, Visual Studio, SSMS, Rider, Photoshop, Illustrator, Jira, Confluence

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