

Ben Machlin

Software 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 industrial 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.js, 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 periods, and region-wide programs to reduce electric grid load.
- Streamlined bespoke internationalization automation process.
- Helped run team social committee and plan team-building events.

2017 - 2019 **Tufts Computer Science Department**, *Teaching Assistant*, Tufts University

Summer 2018 **Alarm.com**, *Software Engineering Intern*, Centennial, CO

Summer 2017 **Human-Robot Interaction Lab**, *Research Assistant*, Tufts University

Projects

See benmachlin.com/projects

2023 **Text Twist Revolution**, *Javascript, HTML, CSS*

- A webgame to enhance the original Text Twist word unscrambling game.

2022 **Tab Scroller**, *Javascript, HTML, CSS*

- A webtool to synchronize musical notation with audio.

2018 **Chronography**, *Python, Javascript, HTML, CSS*

- A webtool to view statistics for albums using Spotify data

2018 **Persimmon Project App**, *Typescript, Ionic, HTML, CSS*

- A cross-platform Ionic app for investors to track a private cryptocurrency portfolio

Skills

Languages JavaScript, C#, Python, 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