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

Personal 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, p5.js/Processing, ChatGPT, Github Copilot, Ember, NodeJS, Vue.js, Spotify API
Concepts	NLP, RL/RLHF, general AI/ML, distributed systems, optimization, good documentation