Ben Machlin

Software Engineer

✉ benmachlin@gmail.com
🖰 benmachlin.com
linkedin.com/in/bmachlin/

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, SQL Server, 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, REST, SOLID