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, Minor: Music Engineering

Experience

2024 - — **Filevine**, *Senior Software Engineer & Tech Lead, Backend, .NET*, Remote, CO
- Developing code at scale for a wide range of clients. Creating APIs, services, event-driven features, and performing refactors for maintainability and performance.
- Leading team's architecture and design decisions. Writing design documents, mentoring peers, and collaborating with company-wide architecture teams.
- Managing backend infrastructure at scale, including message queues (EventBridge, SQS) and distributed storage systems.
- Adapting data flows to integrate AI features into new domains.

2022 - 2023 — **Blazy Builds**, *Machinist and Assembly Tech*, Denver, CO
- Built custom pieces for trade shows, shops, dispensaries, and events. Worked with diverse materials including wood, acrylic, vinyl, and metal.
- Independently operated multiple CNC router machines, refined workflows, and performed regular machine maintenance.

2019 - 2022 — **Alarm.com**, *Software Engineer II, Full Stack, .NET*, Centennial, CO
- Designed, optimized, and maintained backend services for home security and automation, serving over 10 million properties.
- Led feature development for energy savings programs, smart device scheduling, and grid load balancing initiatives.
- Designed and maintained internal and external APIs. Streamlined internationalization workflows.

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 (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

Skills

Languages	C#, Python, JavaScript, HTML, CSS, SQL
Software	git, SQL Server, Rider, VS Code, Linux, Photoshop, Illustrator