

# Luke Muehring

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## Experience

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- Revere Health — Full Stack Software Engineer II** *Salt Lake City, UT* Jun 2024 – Current
- Developed over 10 full-stack Angular (v13–20) and C# applications for doctors and medical staff at Utah's largest physician group, supporting 100k+ patients and handling 100k+ requests monthly.
  - Owned the entire development process from design to deployment. Created UI flows in Figma and implemented them as Angular components. Managed complex frontend state with NgRx (Redux for Angular) to handle live data updates.
  - Created RESTful backend APIs with C# and .NET 8, and implemented SQL stored procedures to safely filter, page, and join data.
- USA Climbing — U.S. National Team Athlete** *Salt Lake City, UT* Nov 2022 – Nov 2023
- Represented the U.S. National Team (Bouldering, Lead) at the highest level of international climbing competition; ranked top 50 globally.
- Microsoft — Software Engineer** *Redmond, WA* Aug 2021 – Feb 2023
- Built two full-stack Azure DevOps .vsix extensions using React and C#, adopted by 1,000+ engineers across the M365 organization to streamline compliance workflows. Designed with accessibility and mobile responsiveness for broad usability.
  - Improved maintainability with 95% NUnit test coverage and Test-Driven Development. Designed reusable and generic components shared across multiple projects to follow DRY.
  - Migrated key components of the SharePoint Search pipeline from .NET Framework to .NET Core, reducing median request latency by 2–5x. Validated migration performance with functional tests across the distributed topology.
- Microsoft — Software Engineering Intern** *Redmond, WA* May 2020 – Aug 2020
- Enabled performance monitoring and issue diagnosis by implementing a telemetry pipeline for an Azure Service Fabric API that logged request details and measured latency.
  - Built a data visualization dashboard for on-call engineers to quickly view 4XX/5XX errors and 99th percentile latency across endpoints, regions, and time dimensions. Set up automated alerts for critical metrics.
  - Integrated with scalable CosmosDB databases and queried them using Kusto Query Language to analyze logs and root cause bugs.

## Projects

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- AI-Powered Voice Dictation Tool** *personal project* June 2025
- Built a web app that transcribes speech to text using OpenAI Whisper, with retroactive transcript edits powered by GPT-3.5-turbo (Vite + React frontend, Python FastAPI backend)
  - Engineered LLM prompts to interpret spoken corrections (e.g., “scratch that” deletes previous sentence) and rewrite rambling speech into concise, well-punctuated output.
  - Reduced transcription latency to <500ms by selecting the optimal Whisper model, balancing speed and accuracy. Eliminated unnecessary network calls using lightweight regex cleaning for filler words (e.g. "uh, um, like").
  - Designed and built a real-time waveform visualizer using the Web Audio and Canvas browser APIs to provide live feedback on voice input strength relative to background noise.
- RestAndRelaxVacation.com — Creator** *vacation rental website* Nov 2023 – Present
- Designed, built and deployed a fully responsive website using React 18 and Tailwind CSS.
  - Built custom UI components (e.g., carousel, nav) from scratch, and designed custom SVG animations with Framer Motion.
  - Increased rental income by 8% by enabling guests to directly book through the website.
  - Enabled tracking for key metrics (e.g., website hits, top search terms) by integrating with Google Business Profile.

## Education

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- Georgia Institute of Technology — Atlanta, GA** Aug 2016 – May 2021
- B.S. in Computational Media, B.S. in Applied Languages & Intercultural Studies (Chinese) - *summa cum laude* (3.82 GPA)
  - Finalist for Stamps President's Scholarship - 150 chosen from thousands of applicants.
  - Peking University Chinese Government Scholar - granted opportunity to study Chinese language and culture in Beijing, China for 1 year.