

# Emma Long

Full-stack engineer driven by thoughtful, scalable architecture.

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## PROFESSIONAL SUMMARY

Software engineer with experience shipping production systems end-to-end—from scalable architecture to intuitive UX and DevOps. Looking to join a high-impact team where engineering craft and product thinking go hand in hand.

## WORK EXPERIENCE

### Software Developer, Haven Ministries

Nov 2023 - Present

- Sole in-house engineer at a 20-person nonprofit; scoped, architected, and built full-stack systems while directing contractors and translating non-technical needs into production-ready tools
- Eliminated 2–4 days of monthly data loss by architecting a TypeScript microservice with Supabase Edge Functions and a REST API to process donation webhooks and sync data into our custom CRM.
- Engineered an internal CMS for managing podcast music metadata and generating licensing reports, built with SvelteKit, Supabase Auth, and Postgres on Vercel Edge; eliminated tens of hours of monthly manual data cleanup

### Software Engineer II, SpaceX

Oct 2023 - Nov 2023

- Joined the Software Infrastructure team as a Level II engineer: improved developer onboarding and reliability for a large monolithic backend system.
- Built a C# CLI tool to streamline internal environment setup, reducing manual steps and improving onboarding efficiency by ~25%.

### IT & Analytics Advisor, Haven Ministries

Nov 2016 - Oct 2023

- Containerized the WordPress development environment using Docker, adding SSL and synced databases to enable realistic QA and cut setup time by 500%.
- Constructed a Prefect-based Python data pipeline to sync CRM data into a dedicated analytics database, reducing dashboard lag from 24 hours to ~1 hour for the marketing team.

## SKILLS

**Programming Languages:** Language 1 (Proficient), Language 2 (Proficient), Language 3 (Familiar)

**Technologies:** [List technologies separated by comma]

## EDUCATION

### Bachelor of Science, Computational Mathematics, University of California, Riverside

May 2022

- Summa Cum Laude (GPA 3.97)
- Coursework included same foundational CS classes as the Bachelor of Science in Computer Science

## PROJECTS

### Co-Founder/Lead Engineer, Study Stack (<https://github.com/emmabyte/study-stack>)

Nov 2022 - Jan 2025

- Architected a full-stack online learning platform, reaching 90% feature completion pre-launch, by building with SvelteKit, Tailwind, Typescript, Prisma and Kysely.
- Cut dev setup time from 2 hours to under 30 minutes, and reduced onboarding friction, by containerizing the environment and scripting key workflows like schema sync and migrations.

### Creator, Personal Website (<https://github.com/emmabyte/personal-website>)

May 2025 - Jun 2025

- Reduced bot traffic by over 90%, as measured via inbox filters, by implementing server-side form validation with CAPTCHA on a SvelteKit contact form.
- Built and deployed a fully responsive, production-grade personal site, serving sub-100ms global load times, by using SvelteKit, TypeScript, Tailwind, and Vercel Edge.