

Gabriel C. Fernández

Experienced Software Engineer specializing in iOS and Full-Stack development, distributed systems & AI-powered software engineering

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Relevant Experience

Founder / Software Engineer · CodeHarmonic, LLC *Apr 2025 – Present*

- Build, design, and ship high-quality, enterprise-grade production web and mobile apps as an indie developer and for clients using technologies such as SwiftUI, JavaScript, TypeScript, React, Next.js, Node.js, PostgreSQL, and more while leveraging AI-powered agentic workflows with tools such as Claude Code, Cursor, Codex
- Built BookMatcher: AI-powered book recommendations and book tracking, cross-platform iOS and web app with SwiftUI, Next.js frontend, Node.js/Hono backend, Supabase, Sentry, Axiom, PostHog, Vercel
- Launched Recall Beacon: consumer safety iOS app with Firebase, real-time push notifications, Core Data, SwiftUI, in-app purchases with RevenueCat
- Designed and deployed AOTL Septic Service web app for local Septic Service company, automating septic service reports for field technicians

Lead Software Engineer · USAA *Dec 2021 – Apr 2025*

- Designed and developed scalable system architecture as solution architect and tech lead for Join USAA Eligibility platform serving millions of daily requests across distributed microservices
- Worked alongside product managers, technical managers, designers, and other engineers to refine initial business requirements and concepts into epics, features, and system designs, deploying enterprise-grade reliable software to production to drive business outcomes
- Led the deployment of SLOs across microservices, guided SRE practices, led on-call rotation for critical systems, drove code review standards
- Developed and deployed full-stack solutions to enable features on USAA.com/join, using React, Redux, Java, Spring, Kafka

Senior Software Engineer *Jul 2017 – Dec 2021*

- Developed back-end microservice APIs on modern infrastructure using OpenShift, Docker, Java, Spring, REST, CyberArk, JWT, GitLab CI/CD
- Led cross-functional collaboration between architecture, security, and business teams to design technical solutions and influence requirements
- Built full-stack employee application on React, Spring; developed iOS ML capability for driver license scanning and selfie capture using Vision APIs

Research Engineer *Jan 2012 – Jun 2017*

- Led development of patented Adaptive DDoS Mitigation for USAA iOS app
- Led IT Security/Fraud research team; built prototypes and evaluated emerging technologies; conducted executive technology briefings; evaluated ML-based fraud detection systems

Education

University of Texas at San Antonio

M.S. in Computer Science · 2019

Concentration: Cybersecurity

Thesis: Deep Learning Approaches for Network Intrusion Detection

Texas A&M University – College Station

B.S. in Construction Science · 2007

Skills

Programming Languages

Swift, TypeScript, JavaScript (ES2015+), Java, Python, C/C++, Objective-C, Scala

Mobile, Backend & Web

iOS, SwiftUI, Android, Node.js, Java, Spring Boot, React, Next.js, Tailwind CSS, REST APIs, Kafka

Data & Cloud

PostgreSQL, Supabase, Neon, Firebase, MongoDB, AWS, GCP, Vercel, Docker, OpenShift, Kubernetes

Tools & Platforms

Claude Code, Cursor, Codex, Git, GitHub, CI/CD, Sentry, Datadog, RevenueCat, Figma

Selected Projects

BookMatcher

AI-powered book recommendation platform. iOS mobile, Next.js frontend, Node.js/Hono backend, Supabase, Sentry, PostHog, OpenAI integration.

Recall Beacon

Food and product recall alerts iOS app. SwiftUI, Swift 6, Firebase backend with real-time push notifications, CoreData, RevenueCat.

Interests

AI-powered software engineering, clean code & software design/architecture, distributed & scalable systems, science fiction, classical piano, electronic music production, health & fitness