Phill Aelony

Senior AI Engineer Full-stack · Agentic systems · TypeScript, React, Node, AWS

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AI engineer and full-stack builder with 8 years shipping production software across web, mobile, and cloud. I own greenfield platforms end to end, from stakeholder discovery to production, and build LLM features into them: agents, MCP servers, streaming chat.

SKILLS

AI	Anthropic SDK · OpenAI Agents SDK · Vercel AI SDK · MCP servers · Structured outputs · Claude Code
Frontend	TypeScript · React · Next.js · React Native/Expo · Vite · React Query · Tailwind · Three.js/R3F · Accessibility
Backend & data	Node.js · Fastify · Express · tRPC · Postgres/Aurora · MySQL · MongoDB · Redis · Drizzle · BullMQ · Colyseus
Cloud & DevOps	AWS (ECS, SES, SQS/SNS, S3/CloudFront, Lambda@Edge, RDS) · Terraform · GitHub Actions · Docker

EXPERIENCE

TimelyCare · virtual health platform for colleges and universities — Feb 2023 – Present

Generative AI Engineer — Apr 2026 – Present
Senior Software Engineer II — Apr 2025 – Apr 2026
Software Engineer — Feb 2023 – Apr 2025

- Took a dormant in-house marketing platform that had **never sent a message** to production in **~4 weeks (40 merged PRs)** to replace Customer.io for ~1.4M students, adding SSO, AWS Terraform, SES, segmentation, broadcasts, and automations.
- Made the platform **agent-operable**. Built an **MCP server** and an in-app assistant (Anthropic SDK, prompt caching) so marketers create segments, draft emails, and submit broadcasts in natural language, with scoped API keys and audit trails.
- Shipped an **AI Resource Finder** for care coordinators (OpenAI Agents SDK, web search, structured outputs, SSE streaming), backed by a ~71K-resource directory I built to replace a six-figure vendor contract.
- Designed, built, and launched a **provider payment platform** that Finance uses to audit and publish monthly payouts for **~750 clinicians and 50K+ visits/month**. In production since June 2026.
- Cut the full-month payout audit from **~44 to ~3 minutes**, and moved payment rules out of SQL stored functions into effective-dated decision tables, resolving six code-vs-policy discrepancies with Finance and Care Ops.
- Found and fixed payout-correctness bugs, including a no-show overpayment regression (30 items/month to 0), a cron/ETL race that underpaid late-month visits, and a vocabulary mismatch that left **363 coaching sessions unpaid**.
- Ran an abandoned-signup email pilot across a 33-school university system with **7.1% registration vs ~3%** for a comparison group (**~2.7× lift**) and 0 spam complaints, and removed ~919K billable profiles from the vendor workspace.
- Earlier, built an event-driven reporting dashboard (SNS/SQS, SQL, Node, React) that helped sales close several large clients, and **cut post-release bugs 50%** with Vitest, Playwright, and Detox.

SELECTED PROJECTS

Quadzilla · AI strength coach for iOS and web — Expo · Next.js · tRPC · Neon Postgres · Vercel AI SDK · Claude

Coach agent holds your full training history and changes your program through typed tools with an auditable decision log. Voice logging, Apple Health sync, offline replay. Live on TestFlight.

Number Slayers · multiplayer 3D math game · numberslayers.com — React Three Fiber · Colyseus · Next.js · Convex · Railway

Server-authoritative multiplayer with snapshot interpolation at 60fps, AI enemy bots, an adaptive Web Audio mixer, and an FBX to GLB asset pipeline that cut load size 88%.

EARLIER EXPERIENCE

Software Engineer · Sessions — Jul 2022 – Dec 2022

Features and a React/React Native component library for a platform connecting 130K musicians with 1.7M fans.

Front End Developer · Designit for Microsoft — Mar 2021 – Jul 2022

Accessible Azure product pages (C#, ASP.NET MVC) during 50% YoY growth; raised team velocity 25%.

Freelance Developer · phillcodes.com — Dec 2018 – Dec 2020

Guitarist & Composer · The Funky Knuckles · Strange Loop Games — 1998 – Present

Adaptive score for the award-winning game ECO (314K units sold) · #1 iTunes jazz album · 15+ years teaching

EDUCATION

B.A. Jazz Studies · University of North Texas