

Caleb Coverdale

Full-Stack Engineer

OT platform serving 1,500+ users. Zero-trust app replacing 80+ portals. \$40K/month cost reduction.

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EXPERIENCE

OT Software Developer

2023 – 2024

Tourmaline Oil

- Inherited a legacy platform and rebuilt it for 1,500+ daily users across 400+ remote resources
- Integrated 200+ security cameras with live streaming and alerting
- Reduced platform costs by \$40K/month through architecture optimization
- Worked directly with field operators and control room staff to prioritize features they needed

Founding Engineer

2018 – 2022

Provision Infotech

- Full-stack platform (NestJS + NextJS + MongoDB) replacing 80+ portals with mobile-friendly web interfaces operators could use from their phones
- 90% field operator adoption within first year of deployment
- Modernized Windows Server 2008/2012 systems (12+ year uptimes) into remotely-managed Server 2016 infrastructure

CURRENT PROJECT

Technical Co-founder (Full-Stack)

2025 – Present

AurorionTech

- Type-safe API: Hono.js + tRPC on Cloudflare Workers with D1 and R2
- 180-file SwiftUI frontend with offline-first sync and real-time SSE updates
- Voice AI pipeline from speech recognition through LLM to synthesis

TECHNICAL SKILLS

Frontend: Swift, SwiftUI, React, Next.js, Vue.js, TypeScript, TailwindCSS

Backend: Cloudflare Workers, Hono.js, tRPC, NestJS, Node.js, Bun

Databases: D1 SQLite, MongoDB, PostgreSQL, Prisma, SwiftData

DevOps: Docker, Podman, Gitea Actions, Azure DevOps, Harbor, Ansible

ADDITIONAL EXPERIENCE

Apple Inc. (2013–2017)

Genius Bar technician. This is where I learned that technical skill means nothing if you can't explain it to someone who's frustrated.

- #1 ranked in Western Canada for appointment efficiency
- 30+ daily appointments, 8-minute average resolution
- ACiT and ACMT certified

Synergi-FX (2017–2018)

IT for oil and gas clients. First time I had to figure out infrastructure problems nobody else wanted to touch.

- Azure AD hybrid sync migration across multiple sites
- Phishing susceptibility: 33% → 0.3%
- Sub-6-hour ticket resolution

NorthRiver Midstream (2022–2023)

Cloud infrastructure for 600+ endpoints. Got deep into Azure FinOps and Kubernetes.

- First AKS deployment at the company
- \$300K annual savings through FinOps analysis

- Built monitoring across the full endpoint fleet

PROJECTS

Zero Trust Remote Access Platform

Replaced 80+ separate field operator portals with one app. Air-gapped, on-prem, zero-trust.

TypeScript · NestJS · NextJS · MongoDB · Prisma · Docker · Harbor · NGINX · Azure DevOps · Ansible

90% Field operator adoption **\$40K** Monthly cost reduction **75+** Sites integrated **24→3** Server consolidation

Aurorion iOS App

Walk to a location, discover a historical figure, have a voice conversation with them. Sole engineer, co-founded with a CEO.

Swift · SwiftUI · SwiftData · Cloudflare Workers · Hono.js · tRPC · D1 · Azure OpenAI · ElevenLabs · H3

v1.0 In App Store review **3.1K+** Commits in 2025 **49** Repos managed **15** Day commit streak

Right-Sized Infrastructure

Took the same patterns I used on enterprise Azure (registries, CI/CD, mesh VPN, monitoring) and ran them on ARM hardware at near-zero cost. Proves the architecture scales in both directions.

Podman · Harbor Registry · Caddy · Tailscale · WireGuard · Gitea · Gitea Actions · Radxa ROCK 5B

~\$0 Monthly infra cost **3** ARM nodes in production **CI/CD** Same pipeline pattern as enterprise **24/7** Monitoring + alerting