

# Caleb Coverdale

## Founding Engineer

Employee #001 at a startup that grew to serve 10+ operators. Built the zero-trust platform, 90% field adoption.

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## EXPERIENCE

### Founding Engineer (Employee #001)

2018 – 2022

Provision Infotech

- Built the technical side of the company from zero, growing to support 10+ midstream energy operators
- Designed and shipped a zero-trust remote access platform that replaced 80+ field portals with mobile-friendly web interfaces, reaching 90% operator adoption
- Migrated legacy Windows Server 2008/2012 infrastructure (some with 12+ year uptimes) to modern Server 2016 with remote management
- Managed 75+ Linux servers with Ansible, cutting deployment time from hours to minutes
- Developed the monitoring and alerting platform for mission-critical plant systems — prevented multiple unplanned shutdowns

### OT Software Developer

2023 – 2024

Tourmaline Oil

- Inherited a legacy OT platform and rebuilt it for 1,500+ daily users across 400+ remote resources
- Integrated 200+ security cameras into a unified monitoring dashboard
- Reduced platform costs by \$40K/month through architecture optimization
- Coordinated with field operators, control room staff, and management across multiple sites

## CURRENT PROJECT

### Technical Co-founder (Sole Engineer)

2025 – Present

AurorionTech

- Production iOS app from zero to v1.0 as sole engineer (in App Store review)
- Voice AI pipeline: speech recognition → LLM reasoning → synthesis, all streaming
- Self-hosted CI/CD on ARM hardware — same patterns as enterprise, near-zero cost

## TECHNICAL SKILLS

**Product Engineering:** Swift, SwiftUI, TypeScript, NestJS, NextJS, Hono.js, tRPC, Cloudflare Workers

**Infrastructure:** Azure, Docker, Podman, Ansible, Harbor, Caddy, Tailscale, NGINX

**Zero-Trust & Security:** Air-gapped networks, Device attestation, RBAC, App Attest, GDPR

**Data:** MongoDB, PostgreSQL, D1 SQLite, Prisma, SwiftData, Offline-first sync

## 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

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### 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