

# ETHAN ALDRICH

Platform & Infrastructure Engineer

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## SUMMARY

**APIs & Integrations:** Microsoft Graph API · DigitalOcean API · Stripe · RingCentral · NetSuite · Mailcow · MCP (Model Context Protocol)

**Patterns:** Multi-tenant SaaS · Microservices · Event-driven architecture · REST API design · Distributed systems · async job queues · CI/CD pipeline design

**DevOps Practices:** GPG-signed commits · branch protection · multi-org runner management · Dependabot · semantic versioning · multi-platform release automation

**West Career and Technical Academy** · Las Vegas, NV · High School Diploma, Graphic Design · 2015–2020

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## EXPERIENCE

**Founder & CTO** — Fimil · fimil.dev

2025 – Present · Remote-first

- Architected multi-tenant SaaS on Kubernetes: FastAPI backend, Celery/Redis async job pipeline, PostgreSQL, React 18 frontend — built and deployed entirely solo
- Designed async pipeline for parallel execution of 12+ security scanners in ephemeral Docker containers with real-time result normalization and deduplication
- Manages all platform DevOps: multi-environment K8s clusters, GitHub Actions CI/CD, Dependabot, CodeQL, GPG-signed commits, branch protection
- Built custom MCP server enabling AI-agent integration — first-to-market in the security tooling space

Stack: Kubernetes · Docker · GitHub Actions · DigitalOcean · Python · FastAPI · PostgreSQL · Redis · Celery · TypeScript · React

**CTO / IT Director** — Malco Enterprises of Nevada (DBA Budget Rent a Car Las Vegas)

Sep 2021 – Present · Las Vegas, NV

- Deployed and maintain 6 self-hosted GitHub Actions runners across 2 GitHub orgs for parallel CI/CD across all internal repos
- Built and operates DigitalOcean Kubernetes clusters and full network infrastructure (SD-WAN, Cisco IOS, VLANs) across 8 locations
- Architected distributed application stack: check-in/check-out (~5,600 tx/day), claims platform, vehicle inspection platform — all Node.js/Express/MongoDB behind Nginx with load balancing
- Built Maverik (C#/NET) — mainframe API wrapper improving operational efficiency by 85%; maintained PCI DSS compliance across all locations

Stack: SD-WAN · Cisco IOS · Linux · Windows Server · Active Directory · Node.js · MongoDB · C# · .NET · Nginx · GitHub Actions

**Open Source — Montr (Rust)** — Distributed digital signage system deployed across Budget lobby displays. Rust client + Node.js/TypeScript server managing up to 25 concurrent displays via WebSocket. Cross-platform (Linux, macOS, Windows) with automated release pipeline via GitHub Actions.

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## SKILLS

**Infrastructure:** Kubernetes · Docker · GitHub Actions (self-hosted runners) · DigitalOcean · AWS S3/Spaces · Proxmox VE · Terraform · SD-WAN · Cisco IOS · PoE · Nginx (reverse proxy, load balancing)

**Languages:** Python · TypeScript · JavaScript · Rust · C# · C/C++ · SQL · Bash · PowerShell · HTML/CSS

**Frameworks & Runtimes:** FastAPI · Node.js · Express · React 18 · .NET · TailwindCSS · Vite · Astro · Celery

**Databases & Queues:** PostgreSQL · Redis · MongoDB · SQL Server · SQLite · Celery/Redis (async queues) · SQLAlchemy 2.0 · Alembic

**Networking & Security:** SD-WAN · Cisco IOS · VLANs · Firewalls · VPN · DNS/DHCP · Tailscale · PCI DSS · TLS/SSL · network segmentation

**Systems & Observability:** Linux (Ubuntu/Debian/Arch) · Windows Server · Active Directory · Group Policy · systemd · structured logging · Flower (Celery monitoring) · GitHub Security (CodeQL, Dependabot, secret scanning)

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