

Andrew Clausen

📍 Indianapolis, IN ✉ @andrew@clausen.app 📞 317-697-4152 🌐 in/ajclausen 🖱 clausen.app

SUMMARY

Systems Engineer architecting network infrastructure for 50+ distributed IoT facilities across 15 states. Led enterprise-wide Cloudflare Zero Trust migration, reducing costs by \$36K annually while eliminating vendor lock-in. Self-taught engineer who advanced from zero technical knowledge to managing 10,000+ connected devices, demonstrating rapid learning ability crucial for evolving cloud technologies.

SKILLS

Infrastructure & Networking: Cloudflare Zero Trust, Ubiquiti UniFi, VLANs, 10G Fiber, DNS, DHCP, Network Architecture

Cloud & DevOps: Docker, Cloudflare Workers/Tunnels, Linux Administration, Bash Scripting, Infrastructure as Code

Development: TypeScript, Node.js, React, Ruby, PostgreSQL, REST APIs, Git

Monitoring & Security: Network segmentation, Zero Trust Architecture, SSL/TLS, System Monitoring

EXPERIENCE

Systems Engineer

ECO Parking Technologies

February 2020 – PRESENT, Indianapolis, IN

- Architected enterprise network overhaul implementing Ubiquiti UniFi with 802.1Q VLANs across 50+ facilities nationwide, improving security posture and enabling granular traffic control for 10,000+ IoT sensors.
- Led Cloudflare Zero Trust migration replacing legacy Verizon APN, reducing costs by \$36K annually while enabling secure remote access and eliminating single point of failure.
- Designed custom 10G fiber backhaul for 693-sensor Las Vegas casino deployment, achieving 99.9% uptime SLA in high-traffic environment with 50ms latency requirement.
- Built production applications streamlining operations: React cost calculator (reduced quotes from 30 to 5 minutes), Ruby microservice for ERP integration (saved 24 hours/week), and custom monitoring dashboard.
- Implemented infrastructure as code practices using Docker and automated deployment pipelines, reducing deployment time by 75% and eliminating configuration drift.

Web Infrastructure Manager

Apprentice University

October 2017 – March 2020

- Recovered compromised WordPress infrastructure through manual security audit and reimplementation.
- Managed DNS, SSL certificates, and web hosting for educational institution serving 500+ students.
- Implemented automated backup system and security hardening protocols, preventing future breaches.

Junior Systems Engineer

Flexware Innovation

September 2019 – January 2020

- Advanced from zero Linux/networking experience to primary technical resource in 3 months, deploying 20+ IoT gateway systems.
- Configured Ubuntu-based gateways with custom networking stack, managing DHCP, DNS, and mesh network topology for 50-100 sensors per site.
- Demonstrated exceptional technical growth, earning direct-hire offer as client's first full-time infrastructure engineer.

EDUCATION

Bachelor's in Network Engineering and Security (BSNES)

Western Governors University • June 2025 to January 2027

- CompTIA A+ and Network+ Certified (2025)