Andrew Clausen

System Engineer & Network Architect

CONTACT

andrew@clausen.app

Remote / Indianapolis, IN

LinkedIn

GitHub

SKILLS

- React & TypeScript
- Node.js & Python
- PostgreSQL & GraphQL
- Docker & Linux
- Cloudflare Zero Trust
- Ubiquiti UniFi
- VLAN & Network Design
- 10G Fiber & IoT

CERTIFICATIONS

CompTIA Security+
CompTIA • 2025

CompTIA Network+
CompTIA • 2025

CompTIA A+
CompTIA • 2025

LPI Linux Essentials
Linux Professional Institute • 2025

ITIL v4 Foundations
AXELOS • 2025

EDUCATION

B.S. Cloud and Network Engineering
Western Governors University
In Progress

Hands-On Program: Full-Stack & Systems
Apprentice University
2017 - 2020

ABOUT

I'm a self-taught System Engineer who transformed from zero technical knowledge into the sole network architect for 50+ smart parking facilities nationwide. My unconventional path through Apprentice University's hands-on program taught me that the best solutions come from understanding both the technical details and business impact.

EXPERIENCE

System Engineer Feb 2020 — Present
ECO Parking Technologies

- 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.

President Oct 2017 — Mar 2020
NexusOpus

- Recovered compromised WordPress infrastructure through manual security audit and reimplementation.
- Managed DNS, SSL certificates, and web hosting for educational institution serving 40+ students.
- Implemented automated backup system and security hardening protocols, preventing future breaches.

Junior Systems Engineer Sep 2019 — Jan 2020
Flexware Innovation

- 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.

PROJECTS

Sales Cost Calculator React • TypeScript • Tailwind • Vite
A React & TypeScript application designed to streamline the sales quoting process. It reduces quote generation time by 80% by automatically calculating hardware requirements, installation labor, and recurring costs based on facility parameters.

Operations Project Tracker Node.js • Ruby • PostgreSQL • React
Full-stack application that bridges the gap between project management and legacy inventory systems. Integrates with Ruby/Fishbowl to track equipment allocation and installation status in real-time.