

Christopher Stradtman

Network Architect & Infrastructure Specialist

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Professional Summary

Seasoned Network Architect with 15+ years of experience delivering scalable, high availability network solutions across live events, cloud infrastructures, and enterprise environments. Adept at integrating cutting-edge technologies, ranging from CDN optimizations to cloud automation, with robust monitoring, operational automation, and data-driven performance enhancements. Passionate about transforming complex challenges into streamlined, strategic initiatives.

Work Experience

Advanced Services Architect | Edgio (Limelight)

Jan 2021 – Jan 2025

- **Performance Innovation:** Transitioned from multi-client roles (Disney, Fox Networks) to a dedicated position supporting Amazon Prime; research-driven improvements boosted caching efficiency and reduced latency.
- **Systems Integration:** Leveraged Lua-embedded CDN software and Python-based edge functions for media protection and ad insertion integrations; collaborated with cross-functional teams and key stakeholders.
- **Operational Automation & Data Engineering:** Developed automated ServiceNow reporting for dynamic traffic events; engineered Python solutions aggregating data (from sources such as Kentik, RIPE, and internal logs) to optimize routing and traffic engineering.
- **Data Infrastructure:** Created Grafana dashboards, ran the Grafana server, and managed an Airflow/PostgreSQL (TimescaleDB) backend for real-time reporting for high-profile clients (Amazon, HBO, CrunchyRoll).
- **Thought Leadership:** Authored a Limelight blog article and built GitHub repositories for a Kubernetes ingress controller leveraging Edgio's CDN, with targeted improvements to the Python SDK to streamline integration.

Owner & Technical Lead | Christopher Stradtman, LLC

Jan 2013 – Current

- **Event Network Leadership:** Delivered tailored temporary network solutions for events ranging from single-day gatherings to multi-week showcases; coordinated with show producers, venues, and ISPs as the on-site technical lead.
- **Rapid Deployment:** Directed installations, configurations, and system extractions under strict deadlines (installations in 1–5 days; extractions in 1–2 days).
- **Infrastructure Integration:** Seamlessly enhanced temporary network infrastructures by integrating improvements with existing on-site systems—minimizing downtime while ensuring robust, reliable connectivity.

- **Layer-1 Troubleshooting:** Conducted comprehensive layer-1 testing by verifying the integrity of optical, copper, and wireless connectivity to ensure optimal performance and integration of temporary network enhancements.

Senior Network Architect | GeoFrenzy

Aug 2016 – Feb 2019

- **Geospatial Innovation:** Led the integration of geo-mapping with IPv6 addressing to enhance the company's location-based capabilities.
- **Fence Delivery Network:** Architected the delivery component of the Fence Delivery Network on GCP using containerized deployments (GKE). Collaborated with the core development team to define streamlined response formats for PowerDNS integration, enabling DNS to serve as a key transport mechanism for GeoFrenzy's fencing data. (US Patent 9,906,902 B2)
- **DevOps & Monitoring:** Implemented CI/CD pipelines with Jenkins/Bitbucket and an ELK stack for real-time network performance monitoring.
- **Drone & IoT Integration:** Developed C/C++ solutions interfacing with drone firmware (via ZeroMQ) and designed Raspberry Pi-based sensors (using MQTT/ActiveMQ) to report drone location data to a telemetry network for ADS-B integration, while concurrently serving as an IEEE Working Group Member (P1920.1, May 2017–Feb 2019) to advance standards in aerial network communications and drone/IoT integration.

Certifications

- **Supervised Machine Learning: Regression and Classification** – DeepLearning.AI, May 2025
- **Google Cloud & Networking Certifications (via Qwiklabs):** Build and Secure Networks in Google Cloud; Cloud Architecture; Networking in the Google Cloud (2019–2020)

Technical Skills

- **Networking & Infrastructure:** Advanced network design, configuration, and troubleshooting; BGP, OSPF, TCP/IP; firewalls, switches, wireless, VPNs, high availability.
- **Cloud & Automation:** Google Cloud (GCP), Kubernetes, Jenkins, serverless computing.
- **Programming & Scripting:** Proficient in Python; working knowledge of Go, C, and C++ (used in production as needed); scripting with Lua; Git workflows on Linux.
- **Monitoring & Analytics:** Grafana, Jupyter, Airflow, Pandas, PostgreSQL, TimescaleDB, SNMP, real-time telemetry.
- **Specialized Technologies:** PowerDNS, content distribution networks, IoT/drones, edge computing.
- **Packet Capture & Analysis:** Proficient in Wireshark and tcpdump.

Education

- **University of Georgia** - Masters of Applied Mathematical Science in Computer Science, 1989
- **Southern Polytechnic State University** - Bachelors of Science in Computer Science, 1987