



Jake Armstrong

Security & Cloud Architect

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EDUCATION

M.S. Cybersecurity (Information Assurance, Cyber Operations) · Southern Utah University, 2025

B.S. in Digital Forensics · Utah Tech University, 2013

A.S. in Pre-Engineering · Utah Tech University, 2011

CERTIFICATIONS

Certified AI Agent Security Specialist · Proofpoint, 2026

CISSP · ISC2-618515, 2025

Computer Forensics Certificate · Utah Tech University, 2013

AccessData Certified Examiner · AccessData, 2013

AccessData Mobile Examiner · AccessData, 2013

CAREER PROFILE

I'm a security and cloud architect focused on the availability, integrity, and security of information in modern enterprise environments. I started in digital forensics, which gave me a useful habit: assuming every system will eventually be inspected, attacked, or both.

Today I lead IT and DevOps at **Zonos**, where I built the information security program that took our API platform through **PCI-DSS** and **SOC 2**. Previously I architected hybrid cloud infrastructure at SkyWest Airlines and led a full-stack IT team at Wilson Connectivity. I write about security and cloud architecture at blog.jakearmstrong.me (<https://blog.jakearmstrong.me>).

Most recently I've been bringing **AI** — generative tools, agentic workflows, and the governance that should sit underneath them — into the security program and into how the team actually ships work.

AI & EMERGING TECH

I treat AI tooling the way I treat any other system that touches our data: useful, accountable, and in scope for the security program. That means policy and tenant controls on the governance side, and hands-on adoption inside the engineering and operations workflows I own.

- **AI security & governance at Zonos.** Authored acceptable-use, data-handling, and vendor-review guidance for generative AI tools used across engineering and operations; folded AI vendor risk into the existing SOC 2 evidence trail.
- **Certified AI Agent Security Specialist (Proofpoint, 2026).** Coursework on prompt injection, agent tool-use abuse, supply-chain risk for model and plugin sources, and identity boundaries for autonomous agents.

- **Agentic tooling in daily practice.** Operate Claude Code with MCP server integrations (GitHub, Atlassian, Linear, Datadog) as part of the infra, security, and IT workload — including authoring Terraform, runbooks, and policy that ship to production.
- **AI in the SDLC.** AI-assisted code review on pull requests against cloud and CI/CD repos; AI-assisted log and alert triage to shorten the path from signal to root cause.

EXPERIENCE

Head of Information Technology / DevOps Engineer

2021 — Present

Zonos · St. George, Utah

- Built the company's information security program from scratch and led it through successful **PCI-DSS** and **SOC 2** audits covering the full API platform.
- Owned policy design, endpoint/MDM, network hardening, vulnerability management, and external penetration testing.
- Authored and maintained cloud infrastructure in **Terraform** and CI/CD pipelines in **GitHub Actions**, shifting security testing left into the SDLC.
- Established monitoring and SLO tracking for application uptime and performance; surfaced actionable reliability recommendations to engineering leadership.
- Set the AI usage and vendor-review guidance for the company and folded AI tools into the SOC 2 evidence trail; standardized on agentic tooling (**Claude Code**, **MCP**) for infra, security, and IT workflows.

Systems Engineer

2018 — 2021

SkyWest Airlines · St. George, Utah

- Operated a hybrid Azure + on-premises VMware/NetApp environment spanning multiple datacenters and WAN sites for a regional airline with thousands of employees.
- Played a lead role in Office 365 and Azure migration, integrating SaaS, PaaS, and IaaS services into existing enterprise workflows.
- Administered Oracle, RHEL, and CentOS Linux fleets, F5 load balancers, and Cohesity backup infrastructure.

I.T. Supervisor / Project Manager

2013 — 2018

Wilson Connectivity · St. George, Utah

- Led a team of **7** across networking, systems, support, database, DevOps, and security, serving a **250+** employee manufacturing company.
- Drove migration to Google Workspace, Microsoft 365, and Azure while modernizing on-premises architecture using Agile project planning.
- Ran eDiscovery, penetration testing, network analysis, and file recovery using digital forensics skills; headed security initiatives protecting company IP and customer data.

Systems Administrator

2015 — 2016

Utah Tech University · St. George, Utah

- Hardened campus systems and migrated SharePoint and Exchange workloads to the cloud.
- Collaborated with a security audit team on ongoing penetration testing to identify and remediate vulnerabilities.

🏆 KEY ACHIEVEMENTS

- **PCI-DSS & SOC 2 Compliance** — Designed and implemented Zonos' information security program from zero, taking the API platform through both audits.
- **CISSP** — Earned the (ISC)² Certified Information Systems Security Professional credential (2025).
- **AI Security at Zonos** — Stood up acceptable-use and vendor-review guidance for generative AI, earned the Proofpoint **Certified AI Agent Security Specialist** credential, and integrated agentic tooling (Claude Code, MCP) into day-to-day infra and security work.
- **M.S. in Cybersecurity** — Master of Science in Cybersecurity with Information Assurance, emphasis in Cyber Operations, Southern Utah University (2025).
- **Hybrid Cloud at SkyWest** — Helped architect and operate a hybrid Azure + on-premises VMware/NetApp environment across multiple datacenters for a regional airline.
- **IaC & CI/CD at Zonos** — Built cloud infrastructure in Terraform and automation pipelines in GitHub Actions, embedding security testing throughout the SDLC.
- **Writing** — Publishing field notes on security and cloud architecture at blog.jakearmstrong.me (<https://blog.jakearmstrong.me>).

🔧 SKILLS & PROFICIENCY

BUILD

Terraform GitHub Actions Azure DevOps Docker / Podman Kubernetes (k8s, k3s, Rancher) NGINX
Apache PowerShell Bash Python Node.js JavaScript HTML & CSS

DEFEND

PCI-DSS SOC 2 Firewalls (Palo Alto, SonicWall, pfSense) VPN (IPSec, OpenVPN, Site-to-Site)
SSO / SAML / OIDC / ADFS WAF IDS / IPS / UTM SSL/TLS & PKI Vulnerability Management
Penetration Testing Digital Forensics LLM Threat Modeling AI Policy & Governance AI Vendor Risk

OPERATE

AWS Microsoft Azure Google Cloud Microsoft 365 Windows Server Linux (RHEL, Ubuntu, Kali, Arch)
VMware NetApp F5 Load Balancing LAN/WAN TCP/IP

SHIP WITH AI

Claude Code MCP Servers Cursor GitHub Copilot Prompt Engineering AI-Assisted Code Review