

# Josh Noll

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## Summary

Results-driven Backend Engineer with expertise in cloud infrastructure, API development, and data management. Proven ability to design, implement, and optimize scalable backend solutions. Military leader with a history of driving digital transformation and delivering stakeholder-aligned outcomes.

## Skills

Python, Ansible, Docker, Kubernetes, Azure, AWS, Linux, PowerShell, Bash, JavaScript, TypeScript, Node.js, Express, MongoDB, PostgreSQL, Git, CI/CD, Flask, VMWare, Proxmox, Wireguard, Tailscale, Nginx, Traefik, HTML, CSS, React, Vite, NextJS, Jest, Tailwind, FluxCD

## Certifications

[ISC2: Certified Information Systems Security Professional \(CISSP\)](#) ↗

[Cisco: Cisco Certified Networking Associate \(CCNA\)](#) ↗

[Azure: Microsoft Azure Administrator Associate \(Az-104\)](#) ↗ , [Microsoft Azure Fundamentals \(Az-900\)](#) ↗

[CompTIA: CompTIA SecurityX](#) ↗ , [CompTIA Security+](#) ↗ , [CompTIA Network+](#) ↗ , [CompTIA Project+](#) ↗

## Experience

### Data and Information Systems Engineer, US Army

Jan 2021 – present

- Designed and delivered an AI-powered search solution using Azure AI Search in collaboration with cross-functional teams, integrating 22TB of data and improving data accessibility.
- Developed and deployed a custom PowerShell module for programmatic user account auditing and management, significantly increasing service desk efficiency.
- Championed Windows server upgrades by advising leadership on risk and urgency, resulting in C-suite approval and reduced vulnerabilities on 34+ systems.
- Designed and presented a tactical network and systems architecture to 5+ C-suite stakeholders, enabling buy-in for a major training event supporting over 50 end users and directly aligning technical innovation with key business objectives.
- Directed planning and implementation of a robust off-site network connection, advising key stakeholders and delivering reliable connectivity to over 50 users under challenging operational conditions.

### Executive Assistant, US Army

Feb 2020 – Jan 2021

- Led the successful alignment between C-suite leadership and technical teams in executing critical strategic initiatives, including the U.S. Army Arctic Strategy.

## Volunteering

### Director of Programming, Arrowhead Research

Jan 2026 – present

- Delivered a presentation at a company-sponsored prototype showcase on open-source methodology to a panel of 5 industry experts and DoD leaders including the US Army CTO, demonstrating technical leadership and communication skills.

### Web Developer, Cybersecurity Canon

Nov 2025 – present

- Publish weekly book reviews to WordPress-hosted website, supporting content delivery for a curated cybersecurity reading resource.
- Developing a prototype website platform using modern web technologies to replace WordPress infrastructure, communicating architectural benefits and trade-offs to leadership to enable enhanced extensibility.

## Projects

### Black Relay ↗

Developed a full-stack IoT platform using JavaScript, Express, MQTT, and MongoDB to collect, process, and visualize real-time sensor data, enabling data-driven decision-making and efficient backend data handling.

### Springboot Speedrun ↗

Developed a RESTful API using Java Spring Boot to demonstrate rapid technology adoption and hands-on learning methodology in enterprise Java frameworks, focusing on robust backend service creation.

### Convoy Connect ↗

Engineered a RESTful API using Node.js, Express, and PostgreSQL to streamline vehicle dispatching workflows and demonstrate database design expertise. Collaborated with a cross-functional development team to deliver capstone project for the Galvanize Software Development Immersive.

### Homelab Ansible Collection ↗

Published a suite of modular Ansible roles to Ansible Galaxy, enabling repeatable server baselines and deployment of Docker containers onto a Tailscale network. Demonstrated ability to deliver reusable, community-facing infrastructure solutions for backend deployments.

### Homelab as Code ↗

Engineered a GitOps-based CD pipeline using Kubernetes and FluxCD to automate deployment of containerized backend services, demonstrating infrastructure-as-code practices and declarative configuration management for scalable, reliable service delivery.

### My Cloud Resume ↗

Built a hybrid resume generation system using Python, Jinja2 templating, and RenderCV to automate dual-format output (HTML/PDF) from a single YAML data source, with CI/CD deployment to Azure Blob Storage via Gitea Actions.

## Education

**Galvanize:** Software Development Immersive (SDI), September 2025

**Webster University:** MA, Information Technology Management, May 2022

**US Army Cyber Center of Excellence (CCOE):** Graduate, Information Systems Engineering Course, October 2021

**University of Wisconsin - Eau Claire:** BA, German - Liberal Arts, May 2017