Noah Frost

AI-Native Infrastructure Engineer | DevSecOps | AWS Certified | 20 Publicly Documented Projects

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Personal Statement

Self-directed engineer with a systematic methodology for accelerated learning and execution using AI as a force multiplier. Over 8 months, designed own curriculum and built 20 cloud infrastructure projects spanning multi-cloud orchestration (AWS, Azure, GCP), Kubernetes operations, Terraform Infrastructure as Code, CI/CD pipelines, and DevSecOps—all publicly documented on GitHub. DevSecOps bootcamp graduate with security-first foundations from CISO-led training. Certifications (AWS Cloud Practitioner, CompTIA Security+, Terraform Associate) earned through hands-on project work without traditional exam preparation. Built 1,500+ LinkedIn network and 500,000+ impressions through consistent documented execution. SC eligible (British citizen, former Police Constable). Based in Northumberland, positioned for North East AI Growth Zone expansion.

Key Projects

Project 20: Multi-Cloud Orchestration

- Designed and deployed infrastructure across AWS, Azure, and GCP using Terraform with Ansible configuration management and Datadog monitoring
- Implemented GitHub Actions workflow for automated multi-cloud provisioning and configuration drift detection
- Demonstrated cloud-agnostic architecture principles and ability to rapidly learn unfamiliar platforms through systematic methodology

Project 12: MCP Meets K8s

- Architected Model Context Protocol server for Kubernetes operations on AWS EKS with ArgoCD GitOps deployment
- Integrated security scanning pipeline (Checkov, Semgrep, Gitleaks, Trivy) implementing shift-left security practices
- Deployed Prometheus and Grafana monitoring stack for cluster observability

Project 5: DevSecOps Pipeline

- Deployed Node.js application to Amazon EKS with automated security scanning integrated throughout CI/CD pipeline
- Provisioned AWS infrastructure using Terraform including GuardDuty threat detection and Splunk SIEM integration
- Applied shift-left security principles learned from CISO-led DevSecOps training

Project 17: AI Developer Platform

- Architected Internal Developer Platform using Backstage on hybrid AWS EKS/ECS with MLflow for ML model lifecycle
- Implemented ArgoCD GitOps workflow with Helm chart deployments for declarative infrastructure management
- Designed complete platform infrastructure using systematic decomposition approach

Project 19: AI Governance Framework

- Deployed policy enforcement framework using HCP Terraform Sentinel policies and OPA Gatekeeper on AWS EKS
- Implemented Kubernetes admission control for ML model tracking and compliance validation
- Established automated policy-as-code enforcement preventing non-compliant deployments

Full portfolio with documentation: noahfrost.co.uk

Skills

Cloud: AWS (EC2, S3, IAM, RDS, Lambda, EKS, ECS, CloudWatch), Azure, GCP

Containers: Docker, Kubernetes, Helm

CI/CD: GitHub Actions, Jenkins, GitLab CI, ArgoCD

IaC: Terraform, Ansible

Languages: Python, Bash, YAML, HCL

Operating Systems: Linux

Monitoring: Prometheus, Grafana, ELK Stack, Datadog

Version Control: Git, GitHub

Methodologies: Agile, DevOps, GitOps, DevSecOps, Shift-Left Security

Professional Experience

Cloud Infrastructure Engineering, Independent Practice   09/2024 — Present
                                                                      Newcastle upon Tyne

- Designed and executed 20 cloud infrastructure projects using self-developed systematic methodology: research → design → build → checkpoint → iterate, all publicly documented on GitHub
- Built AI-assisted engineering workflow treating LLMs as collaborative partners—strategic direction retained, tactical execution delegated—accelerating learning cycles and project delivery
- Achieved AWS Cloud Practitioner, CompTIA Security+, and Terraform Associate certifications through hands-on project implementation without traditional exam preparation
- Grew technical community presence organically to 1,500+ LinkedIn connections and 500,000+ post impressions through consistent documented execution and authentic engagement

DevSecOps Bootcamp, Cyber Agoge   09/2024 — 11/2024 | Remote

- Completed intensive 6-week DevSecOps programme led by Global CISO with KPMG, BAE Systems, and UK Government background
- Established security-first foundations and shift-left methodology applied to all subsequent infrastructure projects
- Developed systematic approach to problem decomposition and evidence-based decision making

Police Constable, Metropolitan Police   02/2022 — 09/2023 | London, UK

- Developed systematic problem-solving approach, composure under pressure, and ability to process complex information quickly
- Built communication skills across diverse stakeholders and high-pressure situations
- SC clearance eligible through service (British citizen with clean record)

Certificates

CompTIA Security+   **AWS Certified Cloud Practitioner**

HashiCorp Certified: Terraform Associate

AWS Certified Solutions Architect — Associate — IN PROGRESS

Education

Law (Criminal Justice) LLM, Northumbria University   09/2023 — 2024
Final Term Paused

Criminology BSc (Hons), University of Chester   09/2016 — 09/2020