Noah Frost

✉ REDACTED   📞 REDACTED   📍 Newcastle upon Tyne   🔗 noahfrost.co.uk

in https://www.linkedin.com/in/nfroze   ⊙ github.com/nfroze

Professional Summary

Career-switching Cloud and AI Engineer with eight months of full-time self-directed development and 20 completed projects across AWS, Terraform, Kubernetes and CI/CD automation. Hold AWS Cloud Practitioner, Terraform Associate and Security+ certifications. Passionate about using AI responsibly to accelerate learning and engineering productivity. Based in Newcastle and continuing to upskill through hands-on projects while preparing to join the North East's growing cloud and AI ecosystem.

Key Projects

Multi-Cloud Orchestration
- Deployed infrastructure across **AWS**, **Azure**, and **GCP** using **Terraform**.
- Configured **security groups** and **firewall rules** for HTTP and SSH access across all providers.
- Implemented **Ansible playbooks** for consistent configuration management.
- Set up **Datadog monitoring** for centralized observability across all three clouds.
- Automated deployment workflows with **GitHub Actions** for multi-cloud releases.

Observability Stack
- Deployed **ELK stack** on **AWS EKS** using **Helm charts**.
- Configured **Fluentd DaemonSet** for log collection across **Kubernetes pods**.
- Implemented **Prometheus** and **Grafana** for metrics monitoring and visualization.
- Set up **Logstash pipelines** for log processing and enrichment.
- Created multi-environment **Terraform** deployment for EKS infrastructure.

3-Tier Serverless Application
- Built **React frontend** deployed on **Amazon S3** with **CloudFront CDN**.
- Developed **AWS Lambda** functions for CRUD operations via **API Gateway**.
- Configured **DynamoDB** for product catalog storage and scalability.
- Implemented **multi-environment deployment** using **Terraform**.
- Created **RESTful API** with proper error handling and validation.

MCP Meets K8s
- Built **Model Context Protocol (MCP) server** for **Kubernetes operations** on **AWS EKS**.
- Implemented **ArgoCD GitOps** for automated application deployment.
- Configured **Prometheus** and **Grafana** monitoring stack.
- Integrated security scanning with **Checkov**, **Semgrep**, **Gitleaks**, and **Trivy**.
- Deployed via **Helm charts** with automated synchronisation from Git.

DevSecOps Pipeline
- Deployed **Node.js application** to **Amazon EKS** with automated **security scanning**.
- Integrated **Semgrep**, **npm audit**, and **Gitleaks** into the **CI/CD pipeline**.
- Configured **Terraform** infrastructure with **AWS GuardDuty** for threat detection.
- Implemented **Splunk SIEM** integration for centralized **security event monitoring**.
- Automated container scanning with **Trivy** prior to deployment.

Full 20 project portfolio with screenshots and source code - noahfrost.co.uk

Skills

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

Containers: Docker, Kubernetes, Helm   **CI/CD:** GitHub Actions, Jenkins, GitLab CI

IaC: Terraform, Ansible   **Languages:** Python, Bash, YAML

Operating Systems: Linux   **Databases:** PostgreSQL, DynamoDB

Monitoring: Prometheus, Grafana, ELK Stack

Professional Experience

Cloud Engineering, Self-Directed Learning   09/2024 — Present | Remote
- Built 20 infrastructure projects across AWS, Azure, and GCP using Terraform and Kubernetes
- Implemented CI/CD pipelines, monitoring stacks, and security controls for containerised applications
- Deployed serverless architectures, GitOps workflows, and multi-environment configurations
- Full portfolio with documentation and working demos: noahfrost.co.uk ⧉

Police Constable, Metropolitan Police   02/2022 — 09/2023 | London, UK
- SC Eligible (held RV/CTC security clearance)
- Produced technical reports requiring precise documentation and evidence correlation
- Balanced competing stakeholder priorities across the organisation
- Adapted communication approach to build rapport with resistant individuals

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