

Noah Frost

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Professional Summary

Career-switching Cloud & AI Engineer with eight months of full-time self-directed development and 20 completed projects spanning AWS, Terraform, Kubernetes, and CI/CD automation. Hold AWS Cloud Practitioner, Terraform Associate, and Security+ certifications. Passionate about using AI tools responsibly to accelerate learning and engineering productivity. Based in Newcastle, continuing to upskill through personal projects while preparing to join the North East's growing AI & cloud 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 across providers
- 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 cluster using Helm charts
- Configured Fluentd DaemonSet for log collection across Kubernetes pods
- Implemented Prometheus and Grafana for metrics monitoring
- 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 S3 with CloudFront CDN
- Developed Lambda functions for CRUD operations with API Gateway
- Configured DynamoDB for product catalog storage
- Implemented multi-environment deployment with Terraform
- Created RESTful API with proper error handling and validation

MCP Meets K8s

- Built Model Context Protocol 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 synchronization from Git

DevSecOps Pipeline

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