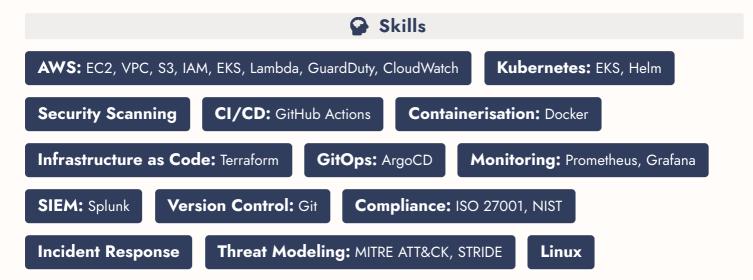
Noah Frost DevSecOps Engineer

in https://www.linkedin.com/in/noahfrost-devsecops/ github.com/nfroze

Profile

DevSecOps Engineer focused on delivering secure, scalable cloud infrastructure with integrated security automation. Experienced in AWS, Kubernetes, and GitOps workflows, with expertise in shift-left security practices and compliance scanning. Strong background in SIEM integration, container security, and infrastructure as code. Proven ability to streamline deployments and strengthen security posture through automated CI/CD pipelines.



Professional Experience

DevSecOps Engineer [Bootcamp], KubeCraft

07/2025 - Present | Remote

- Present technical workshops on **MCP integrations**, **GitOps**, and **AWS EKS** deployments to 600+ member DevOps community
- Mentor engineers on implementing **CI/CD pipelines**, **Kubernetes** orchestration, and **security automation** through hands-on demonstrations
- Contribute to 3x weekly technical sessions, sharing production implementations of **Terraform** IaC and **container security** best practices
- Provide code reviews and architectural guidance for community projects focussing on **DevSecOps** patterns and **shift-left security**

DevSecOps Engineer [Self Directed], Self Employed

02/2025 - 07/2025 | Remote

- Designed and deployed 12 production-grade **DevSecOps** systems on **AWS**, implementing secure **EKS** clusters with **Terraform** and achieving 100% **Checkov** compliance for infrastructure security
- Automated security scanning across CI/CD pipelines using **GitHub Actions**, integrating **Semgrep** for SAST analysis, **Trivy** for container vulnerability detection, and **Gitleaks** for secrets management
- Implemented **GitOps** workflows using **ArgoCD** for **Kubernetes** deployments, reducing deployment times to under 5 minutes whilst maintaining comprehensive security validation
- Configured enterprise monitoring solutions with **Prometheus** and **Grafana** deployed via **Helm** charts, establishing real-time metrics collection and alerting for **Docker** workloads
- Integrated **Splunk SIEM** with **AWS CloudWatch** and **GuardDuty**, centralising security event monitoring and enabling rapid incident response capabilities
- Developed **Model Context Protocol** servers for Al-augmented operations, enabling natural language queries for **Kubernetes** cluster management and automated security incident analysis
- Documented reference architectures and security patterns, creating open-source repositories utilised by DevOps engineers for production implementations

DevSecOps Engineer [Bootcamp], Cyber Agoge

09/2024 - 02/2025 | Remote

- Completed intensive 6-month **DevSecOps** bootcamp led by experienced CISO, mastering enterprise security frameworks including **NIST**, **ISO 27001**, and practical implementation strategies

- Conducted threat modelling exercises using **STRIDE** and **MITRE ATT&CK** frameworks, identifying vulnerabilities and designing security controls for enterprise cloud architectures
- Built and secured **AWS** infrastructure implementing **GuardDuty**, **VPC** security, and **IAM** policies with least privilege access controls across multi-tier applications
- Performed penetration testing on vulnerable applications using **Burp Suite**, **Metasploit**, and **Wireshark**, documenting exploitation paths and remediation strategies
- Developed incident response playbooks for ransomware and DDoS scenarios, applying NIST Incident Response Framework to simulated security breaches
- Implemented **SIEM** solutions for real-time security monitoring, configuring log aggregation, correlation rules, and automated alerting for threat detection
- Demonstrated rapid progression from foundational concepts to advanced implementations, with subsequent project portfolio leading to invitation as potential guest lecturer

Police Constable, Metropolitan Police

02/2022 - 09/2023 | London, UK

- Completed rigorous police training through **Degree Holder Entry Programme (DHEP)**, developing investigative and analytical skills directly applicable to security incident response and threat analysis
- Selected as **Deputy Captain** by cohort peers, demonstrating leadership capabilities in high-pressure operational environments requiring rapid decision-making and team coordination
- Conducted systematic investigations using evidence-based methodologies, developing pattern recognition and root cause analysis skills essential for security operations and threat hunting
- Produced detailed documentation for legal proceedings, ensuring accuracy and compliance with strict regulatory standards skills transferable to security audit trails and incident reporting
- Assessed dynamic risk scenarios and implemented mitigation strategies, building foundation for security risk assessment and threat modelling in technical environments
- Held **RV/CTC clearance**, demonstrating proven vetting for sensitive roles and trustworthiness required for handling critical infrastructure
- Received outstanding reference highlighting "exceptional critical thinking" and "strong work ethic" from police training tutor

Projects

Multi-Cloud Orchestration

- Built unified platform deploying AWS, Azure, and GCP infrastructure simultaneously in 12 minutes
- Implemented GitOps workflow with GitHub Actions triggering parallel Terraform provisioning across all clouds
- Developed OS-adaptive **Ansible** playbooks detecting **RedHat/Debian** for consistent **nginx** configuration
- Deployed **Datadog EU** agents providing single-pane-of-glass monitoring with **100% configuration parity**
- Configured unified **SSH** keys and **security groups** across **VPC**, **VM**, and **compute** resources

Al Governance Framework

- Built dual-layer governance with **Sentinel** and **OPA** blocking £10K+/month unauthorised **GPU** provisioning
- Implemented **HCP Terraform** policies preventing **p3.2xlarge** instances (£3.06/hr) before provisioning
- Deployed **OPA Gatekeeper** on **AWS EKS** enforcing **ML model** tracking with clear policy violations
- Achieved 100% compliance with mandatory versioning and team attribution via Kubernetes admission control
- Reduced **EU AI Act** compliance reporting from 2 weeks to 2 hours through automated audit trails

S Al FinOps Platform

- Built real-time cost platform processing millions of events through Apache Kafka streaming on AWS EKS
- Deployed **Strimzi Kafka** operator with 3 brokers and 23 partitions for **GPU** and **API** cost events
- Implemented OpenCost, Prometheus and Grafana achieving <30 second anomaly detection
- Prevented £100K+ monthly overruns through event-driven monitoring of **gpu-utilisation** and **ai-api-costs**
- Configured complete Terraform infrastructure with VPC networking and Helm chart deployments

- Deployed production GitOps workflow using ArgoCD on AWS EKS achieving 2 minute deployments
- Implemented **Prometheus** and **Grafana** observability stack via **Helm** charts with pre-built dashboards
- Configured self-healing Kubernetes deployments where ArgoCD continuously ensures cluster matches Git state
- Resolved complex Prometheus CRD failures using ServerSideApply and debugged DNS/Terraform issues
- Built Terraform modules for complete AWS infrastructure: VPC, EKS cluster, IAM roles with least privilege

End-to-End DevSecOps Transformation

- Built secure CI/CD pipeline using GitHub Actions with integrated security scanning across SDLC
- Deployed to AWS EKS with Docker containerisation and Kubernetes orchestration

- Automated security tools: Semgrep (SAST), Trivy (containers), Gitleaks, OWASP ZAP, Checkov
- Developed Lambda functions for GuardDuty to Splunk SIEM streaming via CloudWatch events
- Achieved 100% IaC automation with Terraform provisioning VPC, EC2, S3, and IAM security

15+ Additional projects available at noahfrost.co.uk

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
Final Term Paused

09/2023 - Present

Criminology BSc (Hons), University of Chester

09/2016 - 09/2020