

Noah Frost DevSecOps Engineer

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

🧠 Skills

AWS: EC2, VPC, S3, IAM, EKS, Lambda, GuardDuty, CloudWatch

Kubernetes: EKS, Helm

Security Scanning

CI/CD: GitHub Actions

Containerisation: Docker

Infrastructure as Code: Terraform

GitOps: ArgoCD

Monitoring: Prometheus, Grafana

SIEM: Splunk

Version Control: Git




Compliance: ISO 27001, NIST

Incident Response

Threat Modeling: MITRE ATT&CK, STRIDE

Linux

📁 Projects

-  **Project 12: MCP Meets K8s**
 - Pioneered one of the first **Model Context Protocol** integrations for **Kubernetes**, enabling natural language cluster operations via Claude Desktop
 - Deployed production **DevSecOps** platform on **AWS EKS** with **GitOps** via **ArgoCD** and **Helm** charts
 - Integrated comprehensive **security scanning** pipeline: **Semgrep** (SAST), **Trivy** (SCA), **Gitleaks** (secrets), **Checkov** (IaC)
 - Configured **Prometheus** and **Grafana** monitoring stack with **CloudWatch** integration for real-time observability
 - Built infrastructure using **Terraform** with **VPC** isolation, **EKS** cluster, **S3** storage, and **IAM** security
 - Implemented **Docker** container security contexts and **Kubernetes** RBAC policies
-  **Project 9: GitOps with ArgoCD & Monitoring**
 - 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 deployment failures using **ServerSideApply** for large resource handling
 - Built **Terraform** modules for complete **AWS** infrastructure: **VPC**, **EKS** cluster, **IAM** roles with least privilege
 - Debugged **DNS** resolution and **Terraform** module issues, demonstrating real-world troubleshooting skills
-  **Project 5: 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** containerization 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
 - Configured **AWS** infrastructure: **VPC** networking, **EC2** compute, **S3** storage, **IAM** security
 - Achieved **100% automation** with **Terraform** for **Infrastructure as Code** deployment

Additional projects available at noahfrost.co.uk

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 AI-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

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 – Present

Final Term Paused

Criminology BSc (Hons), University of Chester

09/2016 – 09/2020