

Noah Frost

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DevSecOps engineer with 8 months building security automation across 20 projects spanning CI/CD pipelines, Kubernetes security, cloud infrastructure, and AI-assisted incident response. Trained under a Global CISO in DevSecOps methodology. Background in policing brings proven stakeholder communication, compliance mindset, and decision-making under pressure. AWS, Security+, and Terraform certified.

Technical Skills

Cloud Platforms: AWS (EKS, EC2, Lambda, GuardDuty, IAM), Azure, GCP, Terraform, CloudFormation

Container Orchestration: Kubernetes, Docker, EKS, ArgoCD, Helm

CI/CD & Automation: GitHub Actions, GitLab CI, Jenkins, GitOps workflows

Security Tools: Checkov, Trivy, Semgrep, Gitleaks, OPA Gatekeeper, Sentinel, Splunk SIEM

Languages & Scripting: Python, Bash, YAML, HCL

Methodologies: STRIDE, MITRE ATT&CK, DevSecOps, Infrastructure as Code, Policy as Code

Projects

DevSecOps Pipeline | GitHub ✅ End-to-end security pipeline integrating vulnerability scanning into deployment workflow

- Built automated pipeline using GitHub Actions with Checkov, Trivy, and Semgrep security gates blocking non-compliant code pre-deployment
- Deployed containerised applications to Amazon EKS with GuardDuty threat detection and Splunk SIEM integration
- Implemented GitOps workflow with ArgoCD for auditable, version-controlled deployments

AI Governance Framework | GitHub ✅ Policy-as-code framework enforcing security and compliance standards across Kubernetes environments

- Developed Sentinel policies and OPA Gatekeeper constraints to automate compliance checks at admission control
- Created Kubernetes admission webhooks rejecting workloads violating security baselines
- Documented policy rationale mapping controls to compliance requirements

AI-Assisted Security Operations | GitHub ✅ Automated incident response system using AI orchestration for threat remediation

- Integrated GuardDuty alerts with Lambda functions to automatically isolate compromised EC2 instances
- Built Slack notification pipeline providing real-time security alerts to operations team
- Reduced manual intervention in initial incident triage through automated containment workflows

Kubernetes Security Platform | GitHub ✅ Comprehensive DevSecOps platform with monitoring, security scanning, and GitOps deployment

- Deployed EKS cluster with ArgoCD, Prometheus, and Grafana for observability
- Integrated Checkov, Semgrep, Gitleaks, and Trivy into CI pipeline catching vulnerabilities across code, secrets, containers, and IaC
- Configured security scanning to run on pull requests with automated pass/fail gating

Threat Modelling Framework | GitHub ✅ Security assessment methodology applied to healthcare application architecture

- Applied STRIDE methodology to identify threats across application components and data flows
- Mapped identified threats to MITRE ATT&CK framework for standardised threat intelligence
- Produced risk assessment documentation with prioritised remediation recommendations

AI-Assisted IaC Security | GitHub ✅ Infrastructure security scanning with AI-powered analysis and remediation suggestions

- Implemented Checkov scanning for Terraform configurations with custom policy rules
- Built automated IAM least-privilege analysis identifying over-permissioned roles
- Created pre-commit hooks preventing insecure infrastructure reaching version control

Training

DevSecOps Bootcamp, Led by Charlie Banyard, Global CISO

09/2024 – 11/2024 | Remote

- Security integration across software development lifecycle
- Cloud security architecture and threat detection
- Compliance automation and policy-as-code

Professional Experience

Police Constable, Metropolitan Police

02/2022 – 09/2023 | London, UK

Frontline officer responsible for incident response, evidence management, and multi-agency coordination

- Translated complex legal and procedural requirements for non-expert audiences including courts, social services, and public stakeholders
- Made time-critical decisions under pressure with incomplete information during active incidents
- Wrote detailed reports meeting evidential standards for criminal prosecution
- Coordinated with multiple agencies ensuring compliance with data protection and governance requirements

Certifications

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

Criminology BSc (Hons), University of Chester

09/2016 – 09/2020