Noah Frost

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DevSecOps engineer with 8 months building security automation across 15 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

End-to-End DevSecOps Pipeline with SIEM Integration | GitHub Production-grade security automation across the entire software delivery lifecycle with threat detection streamed to Splunk

- Built four-stage pipeline with Semgrep SAST, Trivy SCA, Gitleaks secrets detection, and Checkov IaC scanning with security gates blocking non-compliant code
- Deployed to Amazon EKS with GuardDuty findings and CloudWatch logs streaming via Lambda to Splunk Cloud
- Hardened Kubernetes manifests: non-root containers, read-only filesystem, all capabilities dropped, seccomp profiles enforced

AI/ML Governance with Policy-as-Code | GitHub Dual-layer policy enforcement preventing non-compliant infrastructure and untracked ML models reaching production

- Developed Sentinel policies for HCP Terraform blocking GPU instance provisioning and enforcing AI resource tagging pre-apply
- Built OPA Gatekeeper admission webhooks requiring ML tracking labels and model registry URLs on Kubernetes deployments
- Mapped controls to EU AI Act compliance requirements with risk-level tagging

MCP Security Incident Response System | GitHub AI-powered security operations enabling natural language investigation and automated containment of AWS threats

- Integrated GuardDuty with EventBridge-triggered Lambda to automatically isolate compromised EC2 instances via security group swap
- Built MCP server exposing five tools to Claude Desktop: findings list, deep-dive analysis, incident reports, isolation status, restoration
- Implemented Slack webhook notifications with finding details for real-time security operations visibility

MCP Kubernetes Health Monitor | GitHub Natural language querying of Kubernetes cluster health with GitOps automation and full DevSecOps pipeline
- Deployed EKS cluster with ArgoCD automated sync and self-healing, Prometheus, and Grafana observability
- Integrated Checkov, Semgrep, Gitleaks, and Trivy into GitHub Actions catching vulnerabilities across code, secrets, containers, and IaC
- Built MCP server exposing cluster health tools: unhealthy pods, resource usage, comprehensive health reports

Healthcare Threat Model: STRIDE Analysis | GitHub Comprehensive security threat model for HIPAA-compliant healthcare platform handling PHI and PII
- Identified 15 prioritised threats across authentication, data protection, API security, and infrastructure using STRIDE methodology
- Mapped threats to MITRE ATT&CK framework and HIPAA Security Rule requirements (§164.308–312)
- Produced remediation guidance with working code examples bridging security architects and developers

MCP-Powered IaC Security Remediation | GitHub AI-native infrastructure security connecting Claude Desktop directly to Checkov scan results for conversational analysis
- Built MCP server with tools for scan analysis, remediation generation, security reports, and source code retrieval
- Created remediation engine with pre-built fixes for 20+ common AWS security checks covering S3, RDS, EC2, IAM, VPC
- Integrated with GitHub Actions artifacts for historical result retrieval and audit trail

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