

Noah Frost

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DevSecOps engineer with 15 infrastructure projects and an AI-powered homelab that autonomously builds and deploys production webapps. 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 & Infrastructure: 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

Homelab

Autonomous AI Build System

Designed and built an end-to-end autonomous build system running on a dedicated Mac with its own GitHub account, AWS credentials, and deployment pipeline. The system takes a webapp brief and delivers a live, deployed application — hero art generation from a self-trained LoRA model, animation, build spec, autonomous code generation, and AWS deployment — with zero manual intervention.

- Fine-tuned a Flux LoRA model on Replicate for cinematic image generation; built animation pipeline using Kling AI and FFmpeg
- Architected agent workflow integrating OpenClaw, Claude Code, GitHub CLI, AWS, and Cloudflare into a single checkpointed pipeline
- Five production DevSecOps webapps built and deployed through this system, each running on AWS for under \$3/month combined
- Hub site, source code, and documentation:

nfroze.co.uk  | github.com/NFrozeCLAWDBOT 

Certifications

CompTIA Security+ 

AWS Certified Cloud Practitioner 

HashiCorp Certified: Terraform Associate 

AWS Certified Solutions Architect — Associate — IN PROGRESS

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	
<ul style="list-style-type: none">Translated complex legal and procedural requirements for non-expert audiences including courts, social services, and public stakeholdersMade time-critical decisions under pressure with incomplete information during active incidentsWrote detailed reports meeting evidential standards for criminal prosecutionCoordinated with multiple agencies ensuring compliance with data protection and governance requirements	

Education

Law (Criminal Justice) LLM, Northumbria University	09/2023 – 2024
Criminology BSc (Hons), University of Chester	09/2016 – 09/2020