

SAMUEL "SAM" HAILE

Cloud / SRE & DevSecOps Engineer

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SUMMARY

Cloud/SRE and DevSecOps Engineer with 8+ years of expertise architecting zero-trust AWS environments, Kubernetes platform migrations, and AI-enhanced CI/CD pipelines across the Aviation, Marine, Insurtech, Consulting, and Banking sectors. Proven track record of achieving SOC 2 and NIST compliance while reducing cloud spend by 25% through automated governance. Expert in scaling multi-account architectures, migrating production workloads from ECS to EKS, and provisioning Amazon Bedrock AgentCore infrastructure for AI agent platforms, accelerating delivery without compromising security or integrity.

KEY ACCOMPLISHMENTS

- Achieved SOC 2 certification readiness in under 90 days by implementing audit-ready security controls, automated evidence collection, and secure CI/CD practices, enabling AirTera to win new enterprise clients and expand into regulated markets.
- Improved cloud security posture across multiple organizations, raising CIS compliance to 100% and NIST compliance to 96% by automating vulnerability management, enforcing IAM least-privilege, and integrating continuous security scanning into CI/CD pipelines.
- Accelerated cloud automation and reduced operational costs by leading large-scale IaC transformations using Terraform and AWS CDK, cutting provisioning time by 50%, improving resource efficiency by 90%, and reducing AWS spend by 20–30% through serverless and containerized architectures.
- Led enterprise-wide migration of production microservices from ECS to EKS while standing up secure Amazon Bedrock AgentCore infrastructure, enabling the agentic engineering team to ship AI agent services with per-environment guardrails and credential isolation.

SKILLS

AWS | S3 | IAM | CloudWatch | Lambda | EKS | ECS | AWS Security Hub | GuardDuty | Inspector | AWS Secrets Manager | CI/CD | Terraform | CloudFormation | Jenkins | GitLab Pipelines | Docker | Kubernetes | Git | Python | Bash | CIS | NIST | DAST | SAST | Prometheus | Grafana | ELK

EXPERIENCE

Cloud/SRE Engineer | Bold Penguin

October 2025 – Present

Insurtech: a digital marketplace and infrastructure connecting small businesses with commercial insurance carriers and agents. Privately held, an estimated 200–250 employees.

RESPONSIBILITIES

- Provision and maintain Amazon Bedrock AgentCore infrastructure (runtimes, credential/secret management, guardrails) via AWS CDK across multiple environments to support agentic AI service deployments.
- Lead migration of production microservices from ECS to EKS, coordinating cross-team dependencies and updating CI/CD deployment pipelines.
- Partner with agentic and cloud engineering teams to plan phased service migrations and environment promotion workflows.

ACCOMPLISHMENTS

- Enabled the agentic engineering team to ship AI agent services faster by standing up secure, per-environment AgentCore infrastructure with guardrails and credential isolation.
- Migrated multiple production microservices from ECS to EKS without service disruption, unblocking cloud engineering's platform modernization roadmap.
- Streamlined multi-team environment promotion (dev → alpha → beta → prod) through standardized AWS CDK and CloudFormation IaC patterns.

TECH STACK

- AWS: Amazon Bedrock, ECS, EKS, AWS CDK, CloudFormation, IAM, VPC, S3, CloudWatch
- IaC & Automation: AWS CDK (Python), CloudFormation
- DevOps & Security: CI/CD, Secret Management, Guardrails, Container Orchestration

DevSecOps Engineer | Airtera

November 2024 – October 2025

Aviation & transportation technology: security, safety, and compliance solutions for airlines, airports, and ground-operations clients. Privately held, ~80 employees.

RESPONSIBILITIES

- Architected and deployed secure AWS infrastructure using AWS CDK (ECS Fargate, Lambda, API Gateway, ALB, VPC, Aurora Postgres, RDS SQL Server).
- Built GitLab CI/CD pipelines integrating Snyk, Trivy, Semgrep, dependency scanning, and deployment gates.
- Implemented SOC 2 technical controls including CloudWatch logging, KMS encryption, CloudTrail, and OIDC-based CI/CD authentication.
- Migrated legacy Windows Task Scheduler workloads to serverless .NET 8 Lambdas using EventBridge and SES.
- Enhanced observability using CloudWatch, Prometheus, and Grafana; improved developer experience.

ACCOMPLISHMENTS

- Led migration of a monorepo Operations platform (APIs, Next.js frontends) to AWS with full SOC 2 alignment.
- Achieved SOC 2 certification readiness in under 90 days, enabling enterprise expansion.
- Reduced infrastructure cost by 20–30% through Lambda optimization and standardized IaC modules.
- Delivered a fully serverless reporting system with deterministic outputs and sub-10-second execution time.

TECH STACK

- AWS: EKS, ECS Fargate, Lambda, API Gateway, ALB, VPC, Aurora Postgres, RDS SQL Server, Secrets Manager, KMS, WAF/Shield
- DevSecOps: GitLab CI/CD, OIDC, Trivy, Docker, IAM least privilege, SOC 2 controls, AWS CDK (TypeScript), Terraform
- Applications: Node.js, .NET 8
- Observability: CloudWatch, CloudTrail, Prometheus, Grafana, BetterStack

DevOps Engineer | Everllence

October 2022 – November 2024

Marine, energy & industrial (formerly MAN Energy Solutions), ~75 employees globally.

RESPONSIBILITIES

- Built and maintained DevOps tooling, CI/CD pipelines, and containerized applications to improve deployment speed and reliability.
- Implemented self-service deployment workflows, reducing issue resolution time by up to 40%.
- Designed scalable infrastructure for data science and AI workloads.
- Integrated HashiCorp Vault with Kubernetes, Jenkins, and Terraform to enforce CIS/NIST controls and dynamic secrets.

ACCOMPLISHMENTS

- Migrated Analytics platform to Terraform IaC, reducing deployment time by 40% and increasing scalability by 30%.
- Automated vulnerability scanning and compliance checks, raising CIS to 100% and NIST to 96%.
- Developed reusable Terraform modules for standardized provisioning.
- Integrated Datadog monitoring and alerting across containerized applications, accelerating root-cause analysis and reducing issue resolution time by 40%.

TECH STACK

- AWS: IAM, EC2, EBS, AutoScaling, Load Balancers, S3, Lambda, CloudWatch, CloudTrail, ECR, EKS
- Security: HashiCorp Vault, AWS Secrets Manager, Security Hub, Inspector, GuardDuty
- DevOps Tooling: Jenkins, GitLab, Docker, Kubernetes (EKS), Rancher, Artifactory, Terraform
- Observability & Data: Datadog, Prometheus, Grafana, Kafka

AWS Cloud Engineer | Accenture

May 2019 – October 2022

Consulting, publicly held, 700,000+ employees worldwide.

RESPONSIBILITIES

- Optimized CI/CD pipelines and automated infrastructure provisioning, reducing application deployment times by 50% and operational costs by 30%, enabling faster adaptation to market demands and value delivery to clients.
- Implemented Static Application Security Testing (SAST) for a major water company, integrating security checks into the CI/CD pipeline to identify and remediate code vulnerabilities early in the development lifecycle.

ACCOMPLISHMENTS

- Contributed to migration of a multi-environment infrastructure (staging, pre-production, production) using Terraform, isolating environments for stronger security and delivering a 40% reduction in manual configuration errors and improved resource management.
- Integrated Fortify security checks into the CI/CD pipeline, enhancing application security, reducing security-related release delays by 30%, and ensuring regulatory compliance for critical water-sector infrastructure.

TECH STACK

- AWS: EC2, EKS, S3, Lambda, CloudWatch, CloudTrail
- DevOps Tooling: Jenkins, Git, Docker, Kubernetes (EKS), Helm, Fortify (SAST)
- IaC & Automation: Terraform

EARLIER CAREER

Software Developer | 21PSTEM, Conshohocken, PA

May 2018 – April 2019

Education sector, privately held, ~50 employees. Modernized a Ruby on Rails school management system serving 10k+ users (Rails 3.2 → 4.0); built Selenium test automation with 100% coverage.

Web Development Bootcamp | General Assembly, Philadelphia, PA

November 2017 – April 2018

18-week intensive covering the MERN stack (MongoDB, Express.js, React, Node.js).

Associate Business System Analyst | JP Morgan Chase, Wilmington, DE

December 2015 – November 2017

Financial services, publicly held, 290,000+ employees worldwide. Automated Treasury Note Auction order processing, cutting processing time by 90% and errors by 99%.

Business System Analyst | BNY Mellon, Wilmington, DE

March 2006 – December 2015

Financial services & investment management, publicly held, ~50,000 employees worldwide. Supported automation of NAV calculation applications.

Help Desk Analyst | AHP Settlement Trust, Philadelphia, PA

June 2002 – March 2006

Provided technical support for internal staff processing complex Fen-Phen settlement claims, ensuring high system uptime.

EDUCATION

Management Information Systems | Drexel University, Philadelphia, PA | 2003

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate | Amazon | 2019 – 2022
- Google IT Automation with Python Professional | Grow With Google | 2020

VOLUNTEER

- Founder of Delaware's Official Liverpool FC Supporters Club, which has built a strong fan community that collects 300+ pounds of food annually for local food banks.