

SILIAS ADODO

Cloud & DevOps Engineer

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PROFESSIONAL SUMMARY

Cloud & DevOps Engineer with hands-on experience designing, automating, securing, and troubleshooting cloud-native infrastructure on Amazon Web Services (AWS). Skilled in Infrastructure as Code with Terraform, Kubernetes orchestration with Amazon EKS, CI/CD automation with GitHub Actions, and cloud security using IAM, OIDC, AWS STS, KMS, and Secrets Manager.

Experienced in building modular AWS infrastructure, implementing secure CI/CD pipelines, deploying containerized workloads, managing private cloud networking and databases, and applying least-privilege access controls. Demonstrated ability to troubleshoot infrastructure and deployment issues across Terraform, AWS services, Kubernetes, databases, and CI/CD workflows.

Passionate about building reliable, secure, maintainable cloud platforms and continuously improving infrastructure automation and operational efficiency.

TECHNICAL SKILLS

Cloud Platforms: AWS, Microsoft Azure (Foundational)

Infrastructure as Code: Terraform, Terraform Modules, Terraform Remote State, Infrastructure Validation

Containers & Orchestration: Docker, Kubernetes, Amazon EKS, Helm, Helmfile

CI/CD & Automation: GitHub Actions, GitHub Actions OIDC, CI/CD Pipeline Design, Bash Scripting, Deployment Automation

AWS Services: IAM, STS, OIDC, VPC, EKS, ECR, S3, RDS, DynamoDB, Lambda, ALB, CloudFront, CloudWatch, SNS, KMS, Secrets Manager, Systems Manager Parameter Store

Cloud & DevSecOps: IAM Trust Policies, Least Privilege, Identity Federation, OIDC Authentication, Secrets Management, KMS Encryption, Private Cloud Networking, Infrastructure Security, DevSecOps

Operating Systems: Linux

Configuration Management: Ansible

Databases: MySQL, PostgreSQL

Programming & Scripting: Python, Bash, HTML, CSS, JavaScript

PROFESSIONAL EXPERIENCE

Cloud DevOps Engineering Specialist | AltSchool Africa Jun 2025 – Jun 2026

Designed, automated, deployed, secured, and troubleshot cloud-native infrastructure through hands-on engineering projects using AWS and modern DevOps practices.

- Designed and provisioned AWS infrastructure using Terraform and reusable Infrastructure as Code modules, following cloud architecture and maintainability best practices.
- Built GitHub Actions CI/CD pipelines to automate infrastructure provisioning, validation, application deployment, and post-deployment verification.
- Deployed containerized workloads to Amazon EKS using Kubernetes, Helm, and Helmfile.
- Implemented GitHub Actions OIDC authentication with AWS IAM and STS, eliminating the need for long-lived AWS deployment credentials.
- Applied cloud security practices using IAM, least-privilege policies, KMS, Secrets Manager, Systems Manager Parameter Store, and restrictive IAM trust policies.
- Designed and managed private cloud networking and database infrastructure, including VPCs, private subnets, and Amazon RDS.
- Refactored infrastructure into reusable Terraform modules to improve scalability, consistency, and maintainability.
- Investigated and troubleshot Terraform state, infrastructure drift, Kubernetes deployment, CI/CD, database connectivity, and authentication issues.
- Produced technical documentation, architecture diagrams, deployment runbooks, and incident documentation.

CLOUD ENGINEERING PROJECTS

Project Bedrock — Production-Grade Cloud-Native Retail Platform on AWS

Designed and implemented a production-oriented Kubernetes platform for deploying containerized retail microservices on AWS.

- Designed a highly available AWS networking architecture using VPC, public/private subnets, NAT Gateways, Internet Gateway, route tables, and security groups.
- Provisioned Amazon EKS clusters using Terraform.
- Automated infrastructure provisioning and application deployment using GitHub Actions.
- Built CI/CD workflows for provisioning AWS infrastructure and deploying Kubernetes workloads.
- Integrated Amazon ECR, ALB, CloudWatch, IAM, and Amazon RDS into the cloud platform.
- Deployed multi-service retail workloads using Kubernetes, Helm, and Helmfile.

Technologies: AWS · Terraform · Kubernetes · Docker · Amazon EKS · Helm · Helmfile · GitHub Actions · Linux · ECR · RDS · CloudWatch · IAM

Project Fortress — Production Hardening, Cloud Security & Secure CI/CD

Transformed Project Bedrock into a more secure, modular, and automated cloud platform by implementing DevSecOps practices, AWS security controls, centralized secrets management, and structured CI/CD automation.

- Refactored Terraform infrastructure into reusable modules for networking, EKS, RDS, S3, DynamoDB, Lambda, ECR, IAM, KMS, Secrets Manager, SSM, monitoring, and supporting AWS services.
- Implemented GitHub Actions OIDC authentication with AWS IAM and STS, using repository/branch-scoped trust policies to eliminate long-lived AWS credentials from CI/CD.
- Designed a multi-stage GitHub Actions deployment pipeline covering environment preparation, Terraform infrastructure validation, database initialization, application deployment, deployment verification, and post-deployment smoke testing.
- Implemented centralized database secret management using AWS Secrets Manager and KMS, with dynamically generated credentials integrated with Amazon RDS.
- Deployed MySQL and PostgreSQL databases through Amazon RDS using private subnets, preventing direct public database access.
- Configured Amazon EKS access controls using IAM-backed access entries and namespace-scoped permissions to enforce least-privilege Kubernetes access.
- Configured remote Terraform state using Amazon S3 for centralized infrastructure state management.
- Applied least-privilege IAM policies and restrictive trust relationships across AWS infrastructure and GitHub Actions deployment components.
- Integrated CloudWatch monitoring, Lambda, and SNS notifications to improve operational visibility and alerting.
- Investigated and diagnosed cross-layer deployment failures involving Terraform state, AWS Secrets Manager, RDS, Kubernetes, and GitHub Actions.
- Performed infrastructure validation and state consistency checks using Terraform planning and refresh operations.

Technologies: AWS · Terraform · Terraform Modules · Kubernetes · Amazon EKS · GitHub Actions · OIDC · IAM · STS · KMS · Secrets Manager · RDS · S3 · DynamoDB · Lambda · ECR · SSM · CloudWatch · SNS · Linux

EDUCATION

Diploma in Cloud Engineering — AltSchool Africa
2026

Cloud Computing Certificate — Hagital Consulting
2025

Higher National Diploma (HND), Mechanical Engineering Technology (Plant Option) — Federal Polytechnic Auchi
Upper Credit

CERTIFICATIONS

- AWS Certified Cloud Practitioner — Scheduled

GITHUB PORTFOLIO

Maintains cloud engineering projects demonstrating:

- Production-oriented AWS infrastructure and Infrastructure as Code with Terraform
- Reusable Terraform modules and Amazon EKS / Kubernetes deployments
- GitHub Actions CI/CD with GitHub Actions OIDC authentication
- AWS IAM and least-privilege security, KMS and Secrets Manager
- Secure cloud architecture and containerized application deployment
- Cloud monitoring and operational automation