

CHUKWUEMEKA PETER EZE

Cloud Security & DevOps Engineer

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Professional Summary

Cloud Security & DevOps Engineer focused on designing, automating, and securing scalable cloud-native infrastructure using AWS, Terraform, Docker, Kubernetes, and modern DevSecOps practices.

Experienced in building production-inspired cloud environments, Infrastructure as Code solutions, CI/CD pipelines, containerized platforms, and observability systems that improve reliability, scalability, operational efficiency, and security.

Passionate about helping organizations modernize infrastructure through cloud automation, platform engineering, DevSecOps, and Site Reliability Engineering principles. Currently advancing expertise through hands-on engineering projects, Kubernetes administration, cloud security, infrastructure automation, and the TechWorld with Nana DevOps Bootcamp.

Core focus areas include AWS Cloud Infrastructure, Cloud Security, Infrastructure as Code, Kubernetes, CI/CD Automation, DevSecOps, Platform Engineering, Observability, and Reliability Engineering.

Areas of Focus

- Cloud Security & Secure Cloud Architecture
- AWS Cloud Infrastructure & Platform Engineering
- Infrastructure as Code (Terraform & CloudFormation)
- Kubernetes & Container Orchestration
- CI/CD Automation & DevOps Practices
- DevSecOps & Security Automation
- Observability, Monitoring & Reliability Engineering
- Cloud Automation & Operational Excellence

Technical Skills

Cloud Platforms: AWS (EC2, S3, IAM, VPC, RDS, ELB, Route 53, Auto Scaling, CloudWatch)

Infrastructure as Code: Terraform, AWS CloudFormation

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

DevOps & Platform Engineering: GitHub Actions, Jenkins, Git, Linux, Docker, Kubernetes, Helm

DevSecOps & Security: IAM, RBAC, Least Privilege Access Control, MFA, AWS KMS, AWS Secrets Manager, Secure CI/CD Practices

Monitoring, Observability & Reliability: CloudWatch, Prometheus, Grafana, ELK Stack, Monitoring & Alerting

Programming & Automation: Python, Bash, YAML

Collaboration & Productivity: GitHub, Notion, Jira, ClickUp

Networking & Architecture: VPC Design, Subnetting, Routing, Security Groups, Network ACLs, Load Balancing, DNS (Route 53), High Availability Design, Disaster Recovery Fundamentals

Professional Experience

Digital Witch Support Community, Cloud Security & DevOps Engineer (Intern)

(Remote) Nigeria
June 2025 – May 2026

Gained hands-on experience designing, deploying, and securing cloud-native infrastructure on AWS while applying Cloud Engineering, DevOps, DevSecOps, and Platform Engineering practices in simulated enterprise environments.

Key Contributions:

- Designed secure AWS environments using IAM least-privilege policies, VPC with private/public subnet isolation, EC2, RDS, and Security Groups, eliminating all direct internet exposure to application and database tiers.
- Implemented Infrastructure as Code with Terraform and CloudFormation, reducing environment provisioning time from hours of manual configuration to under 10 minutes of automated deployment.
- Built CI/CD pipelines using GitHub Actions and Jenkins that automated build, test, Docker image creation, and deployment, replacing manual deployment steps with a fully auditable automated workflow.
- Containerized applications using Docker and deployed to Kubernetes clusters, enabling consistent environment parity between development and production and supporting zero-downtime rolling deployments.
- Implemented DevSecOps security controls including secrets management, image scanning, and RBAC policies, shifting security left into the CI/CD pipeline rather than treating it as a post-deployment concern.
- Built monitoring and observability solutions using CloudWatch, Prometheus, and Grafana, providing real-time visibility into infrastructure health, resource utilization, and application performance.
- Implemented backup and disaster recovery strategies with defined RTO and RPO targets, ensuring business continuity through automated snapshot policies and tested restore procedures.
- Applied AWS cost optimization recommendations including right-sizing, Reserved Instance analysis, and S3 lifecycle policies, identifying opportunities to reduce unnecessary cloud spend.

Capable Solutions, Remote IT Operations & Workflow Systems Support

Texas, USA (Remote)
Sept 2024 – present

- Supported CRM and business workflow systems serving distributed teams across multiple time zones, maintaining zero-downtime operations during business hours.
- Performed data validation and process optimization that improved data consistency and reduced manual correction effort across operational datasets.
- Built and maintained structured operational reporting that gave leadership clear visibility into workflow performance and bottleneck identification.
- Improved workflow consistency across distributed teams by standardizing process documentation and reducing ambiguity in handoff procedures.
- Contributed to data enrichment and automation initiatives that reduced manual data entry time and improved dataset reliability for downstream reporting.

Engineering Projects

AWS EC2 Web Deployment

Jan 2026

Designed and deployed a production-ready web application on AWS EC2 using secure networking, Linux administration, and web server configuration. The project demonstrates foundational cloud deployment, infrastructure security, and application hosting best practices.

- Deployed a production-ready web application on AWS EC2 using secure networking and Linux server administration.
- Configured Security Groups, SSH access, Nginx, and domain routing for reliable application hosting.
- Applied infrastructure security best practices, deployment automation principles, and cloud resource management.

Terraform AWS Infrastructure

Feb 2026

Designed reusable Infrastructure as Code (IaC) solutions using Terraform to automate AWS resource provisioning. The project focuses on scalable, version-controlled infrastructure deployment following modern DevOps practices.

- Designed and provisioned reusable AWS infrastructure using Terraform modules and version-controlled Infrastructure as Code.
- Automated VPC, EC2, IAM, networking, and security resource deployment across multiple environments.
- Implemented scalable, repeatable infrastructure provisioning following DevOps and cloud engineering best practices.

AWS EKS Cluster

Mar 2026

Built and managed a production-ready Kubernetes environment on Amazon EKS for deploying and orchestrating containerized applications. The project demonstrates cloud-native architecture, scalability, and Kubernetes administration.

- Built and configured a production-ready Amazon EKS Kubernetes cluster for container orchestration on AWS.
- Managed worker nodes, networking, namespaces, deployments, services, and application scaling.
- Applied Kubernetes best practices for high availability, workload management, and cloud-native deployments.

Complete CI/CD Pipeline

Apr 2026

Developed an automated CI/CD pipeline integrating GitHub Actions, Docker, Amazon ECR, and Amazon EKS to streamline application build, testing, and deployment. The project showcases continuous integration, continuous delivery, and deployment automation.

- Built an end-to-end CI/CD pipeline integrating GitHub Actions, Docker, Amazon ECR, and Amazon EKS.
- Automated application build, testing, container image creation, and Kubernetes deployment workflows.
- Implemented continuous delivery practices to improve deployment speed, consistency, and reliability.

Prometheus Monitoring Stack

May 2026

Implemented a comprehensive monitoring and observability platform using Prometheus, Grafana, and Alertmanager to monitor infrastructure health, visualize metrics, and enable proactive alerting for cloud-native workloads.

- Implemented a complete monitoring and observability stack using Prometheus, Grafana, and Alertmanager.
- Configured infrastructure metrics collection, dashboards, visualization, and proactive alerting.
- Improved operational visibility, system health monitoring, and performance troubleshooting capabilities.

Python AWS Boto3 Automation

May 2026

Developed Python automation scripts using the AWS Boto3 SDK to simplify cloud resource management and reduce manual operational tasks. The project demonstrates cloud automation, scripting, and operational efficiency.

- Automated AWS resource management using Python and the Boto3 SDK.
- Developed scripts for EC2, S3, IAM, and cloud resource lifecycle operations to reduce manual administration.
- Applied automation best practices to improve operational efficiency, consistency, and cloud governance.

Ansible Kubernetes Deployment

June 2026

Automated Kubernetes application deployments using Ansible playbooks to improve deployment consistency and reduce manual configuration tasks. The project highlights configuration management and infrastructure automation practices.

- Automated Kubernetes application deployments using Ansible playbooks and infrastructure automation workflows.
- Managed application configuration, deployment consistency, and repeatable provisioning across environments.
- Reduced manual deployment effort through declarative automation and configuration management practices.

Docker Compose Multi-Container

July 2026

Designed and deployed a multi-container application using Docker Compose to orchestrate interconnected services with isolated networking and persistent storage. The project demonstrates containerization and modern application deployment practices.

- Designed and deployed a multi-container application using Docker and Docker Compose.
- Orchestrated interconnected services with isolated networking, persistent storage, and environment configuration.
- Applied containerization best practices to improve application portability, scalability, and development consistency.

Certifications

- TechWorld with Nana - DevOps Bootcamp (In Progress) Expected Completion: September 2026
- TechWorld with Nana - DevSecOps Engineering Bootcamp (Planned)
- Certified Kubernetes Administrator (CKA Track - In Progress)
- Docker & Kubernetes Mastery Program (Planned)
- AWS Certified Cloud Practitioner (In Progress)
- AWS Solutions Architect Associate (Planned)
- Terraform Infrastructure as Code (Planned)

Education

B.Sc **Ebonyi State University**, Economics

- Second-Class Honours
- Position Held: Director of Socials and Sports

Nigeria
Sept 2011 – Nov 2015

TechWorld with Nana, DevOps Bootcamp (In Progress)

- Comprehensive hands-on training in AWS, Docker, Kubernetes, Terraform, GitHub Actions, Linux, CI/CD, Helm, and DevOps best practices.
- Building real-world cloud infrastructure and deployment projects using industry-standard tools and workflows.
- Developing practical experience in Infrastructure as Code (IaC), container orchestration, automation, and cloud-native application deployment.

Remote
July 2026

Portfolio Links

- [GitHub](#)
- [Linkedin](#)
- [Portfolio Website](#)
- [Medium Blog](#)
- [Notion Engineering Notes](#)