
Emeka Edward Amanze

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Professional Summary

Experienced DevOps Engineer with over 4 years of expertise, designing and automating infrastructure that is scalable, secure and highly available. Also skilled in SCA, SAST and DAST integration into DevOps processes for secure software delivery. Knowledgeable in using SonarQube, OWASP Dependency-Check and OWASP ZAP to uncover and reduce risks and integrating into CI/CD processes with Jenkins and Git.

Also proficient in Docker for containerization, Kubernetes for orchestration and Terraform and Ansible for Infrastructure as code. Proficient in managing cloud platforms, on AWS, with extensive expertise in Change and Incident Management processes. Strong support of DevSecOps practices, proactive collaboration and ability to provide scalable and secure solutions respecting best industry practices. My passion for continuous learning and knowledge sharing makes me an asset, contributing to the team and organizational success.

Skills

- Version Control: Git, GitHub, Bitbucket
- CI/CD Tools: Jenkins, Argo CD
- Build automation Tools: Maven, Gradle, OWASP Dependency Check, OWASP ZAP, Sonarqube
- Configuration Management: Ansible
- Infrastructure as Code: Terraform, Checkov
- Containerization: Docker, ECS, EKS, Kubernetes, Trivy
- Programming Languages: Bash, Python
- Databases: MySQL
- Ticketing and Tracking Tool: Jira
- Documentation Tool: Confluence
- Cloud Platforms: Amazon Web Services (AWS)
- Observability, Monitoring, and Notification: Prometheus, Grafana, Elastic Stack, Istio Service Mesh, NewRelic, Slack, Opsgenie
- Incident Management: Root cause analysis, incident response, post-incident reviews.
- Change Management: Change planning, risk assessment, deployment coordination.

Work Experience

DevOps Engineer

Cloudhight Consulting Limited, Dublin Ireland

September 2020 - Present

- Fostered strong collaboration among development, QA, security and operations teams Coordinated daily stand-ups, sprint planning meetings, and cross-team discussions to ensure alignment and efficient workflows.
- Spearheaded the implementation of CI/CD pipelines using Jenkins to automate the deployment of microservices, reducing deployment times by 40%. Integrated Argo CD for GitOps-based delivery, ensuring rapid and reliable application releases. Used tools like Maven and Gradle to streamline build processes and incorporated SonarQube, OWASP Dependency-Check, and OWASP ZAP to enforce code quality and security checks before production deployments.
- Designed and deployed cloud infrastructure using Terraform, automating the provisioning of resources on AWS. Enhanced infrastructure security and compliance by integrating Checkov for policy-as-code checks during code reviews.
- Successfully migrated 9 on-premises applications to the AWS cloud using a Lift and Shift approach.
- Deployed and managed containerized applications using Docker, scaling them efficiently across Kubernetes clusters in production. Enhanced application security by integrating Trivy for vulnerability scanning and implemented Istio Service Mesh to optimize traffic flow and enforce zero-trust security policies within Kubernetes clusters.
- Automated complex server configurations and application deployments across multiple environments using Ansible, reducing manual effort by 60% and ensuring consistent configurations across development, staging, and production.

- Coordinated development workflows using Git and GitHub, implementing branch protection policies and code review processes that improved team productivity and code quality. Supported teams with migration from Bitbucket to GitHub for centralized repository management.
- Engineered cost-effective, scalable, and secure solutions on AWS, including auto-scaling groups for elastic workloads and secure VPC configurations. Reduced operational costs by implementing tagging policies and reserved instances.
- Implemented CI/CD pipelines to automate Docker image builds and ECS task deployments using Jenkins and GitHub Actions.
- Established end-to-end monitoring using Prometheus and Grafana for Kubernetes-based microservices, significantly reducing incident detection time. Deployed Elastic Stack for centralized logging and real-time log analysis, leading to quicker root cause identification. Integrated Slack and Opsgenie for streamlined alerting and escalation management.
- Led cross-functional incident response teams during production outages, performing root cause analysis and implementing fixes to prevent recurrence. Oversaw change planning and deployment coordination for major system upgrades, minimizing downtime and user impact.
- Created detailed runbooks, system architecture diagrams, and deployment guides in Confluence, ensuring consistent knowledge sharing across teams. Managed project progress and bug tracking in Jira, prioritizing and resolving issues within sprint timelines.
- Developed and scheduled a Bash script as a cron job on an Ansible instance to automatically discover and configure newly provisioned instances by triggering deployment playbooks. Automated maintenance tasks such as log rotation and backups using Bash and enhanced workflows with custom Python scripts for data transformation and API integrations, boosting team efficiency.

DevOps Engineer & Instructor

MotivaLogic Academy, Dublin Ireland

January 2019–August 2020

- Responsible for creating the Architecture and DevOps task for the deployment of 4 prototype products and making sure the CI/CD pipeline is running smoothly.
- Coordinate and develop training content (documentation and videos) for AWS services, Terraform, Kubernetes.
- Trained cloud engineers across 2 continents and had impact sessions with over 40+ students on managing of AWS Cloud Platform, Git, Terraform, Ansible, Docker and Kubernetes.
- Deliver instructor-led classroom training to customers and partners on a regular schedule.
- For New applications, work with development team to get the requirements of application build and deployment process.
- Integrated Maven, Jenkins for the builds as the Continuous Integration process.
- Debugged build failures and worked with developers and QA personnel to resolve related issues.
- Implemented the automation scripts (Bash Script) for deployment process to different environments.
- Conduct AWS training using a variety of instructional techniques and delivery methods.

Data Entry Specialist

Intelics Solutions Limited

Feb 2017 – Jan 2019

- Entered and verified data into various databases, ensuring accuracy and completeness of information.
- Handle sensitive and confidential information securely, adhering to data protection regulations and company policies to maintain privacy and compliance.
- Conduct regular audits of data entry processes to ensure adherence to quality standards and identify areas for improvement.
- Collaborate with various departments and team members to gather, verify, and integrate data, ensuring consistency across systems and departments.
- Assist in basic data analysis by summarizing data, identifying trends, and providing actionable insights to support decision-making.
- Provide training and support to new team members on data entry procedures, system usage, and best practices to ensure a smooth onboarding process.
- Identify opportunities for enhancing data entry processes and systems, propose and implement improvements to increase efficiency and accuracy.

Education

Higher National Diploma in Computer Science
The Polytechnic, Oyo Ibadan
2017

Certifications

- AWS Solution Architect Professional
- DevOps Institute [DevSecOps Foundation]
- DevOps Institute [DevOps Engineer Foundation]
- MotivaLogic Academy Dublin Ireland [Certified DevOps Engineer]
- Cisco Networking Academy

Trainings

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| • AIOPs Foundation Train-the-Trainer Workshop | May 2024 |
| • DevSecOps Practitioner Train-the-Trainer Workshop | Jan 2024 |
| • SRE Practitioner Train-the-Trainer Workshop | Jan 2024 |
| • Observability Foundation Train-the-Trainer Workshop | Jan 2024 |
| • DevOps Engineering Foundation Train-the-Trainer Workshop | Dec 2023 |
| • Cisco Network Academy Introduction to Cybersecurity | |
| • AWS Partner Technical and Sales | |

References

- Available upon request.