

ERICK GICHUKI

DevOps Engineer

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SUMMARY

I am an experienced DevOps Engineer with expertise in continuous integration and delivery (CI/CD), automation, and configuration management. I specialize in optimizing workflows, improving efficiency, and managing complex environments using industry-leading tools and technologies.

SKILLS

Tools: Docker, Kubernetes, Terraform, Ansible, Jenkins, GitHub Actions, Prometheus, Grafana, ELK, AWS.

Languages: Python, Javascript.

Frameworks: React, Next.js, FastAPI, Flask, Django, TailwindCSS.

Soft Skills: Leadership, Problem-solving, Collaboration, Communication.

EXPERIENCE

Account Executive | Correlaction Africa Limited

Nairobi, Kenya 2023 - Present

- Performed in-depth analysis of Unilever market data, identifying inefficiencies and recommending actionable solutions, improving market performance by 15%

DevOps Engineer | Freelance

Remote, 2024 - Present

- Design and build scalable, cost-optimized cloud infrastructure for clients, ensuring high performance, availability, and security across environments.

EDUCATION

Ace Platform | Haskell Development

Remote, Canada July 2024 - Mar 2025

- Developed a deep understanding of Haskell and functional programming principles.

AWS re/Start | AWS Cloud Practitioner

Remote, Kenya Sep 2024 - Nov 2024

- Gained strong knowledge in Linux, networking and security principles.
- Developed skills in scripting for automation and proficiency in Docker and Kubernetes for containerization and orchestration.
- Acquired hands-on experience with AWS Infrastructure and services.

Moringa School | Software Engineering

Nairobi, Kenya Feb 2024 - Aug 2024

- Developed expertise in software development, focusing on building scalable and maintainable applications.
- Strengthened problem-solving abilities through in-depth learning of data structures and algorithms.

University of Embu | Bachelor of Economics and Statistics

Embu, Kenya Aug 2019 - Apr 2023

- Gained a solid foundation in probability computations, calculus, and hypothesis testing for analytical analysis.
- Acquired hands-on experience in data analysis and interpretation to inform decision-making.

PROJECTS

CI/CD Pipeline with Jenkins, SonarQube, Docker and ArgoCD | [Link](#)

Automated a robust CI/CD pipeline for a Java application deployed on Kubernetes, leveraging Jenkins, Docker and ArgoCD for seamless integration, enhanced code quality, efficient delivery through GitOps.

Features:

- Deployed Jenkins on AWS EC2 for scalable CI/CD workflows and integrated GitHub webhooks for automated triggers.
- Utilized Maven for building, SonarQube for static code analysis, and Docker for containerization.
- Pushed the Docker images to DockerHub, updated Kubernetes manifests via shell scripts, and deployed using ArgoCD.

Technologies: Git, AWS, Jenkins, SonarQube, Docker, ArgoCD, and Kubernetes.

DevSecOps Pipeline for TicTacToe Game Application | [Link](#)

Implemented a secure DevSecOps pipeline for a TicTacToe game application.

Features:

- Integrated GitHub Actions to automate build, test, and deployment workflows.
- Embedded security scanning with Trivy to detect vulnerabilities in Docker images.
- Containerized the application using Docker for consistent runtime environments.
- Deployed to a Kubernetes cluster for scalable orchestration and management.
- Utilized ArgoCD for declarative GitOps-based continuous deployment.

Technologies: GitHub Actions, Trivy, Docker, Kubernetes, ArgoCD.

Automated EC2 Instance Provisioning with Terraform | [Link](#)

Developed an automated infrastructure provisioning solution using Terraform, managing multiple environments (Development, Staging, Production) on AWS.

Features:

- Utilised Terraform workspaces to streamline environment management and maintain a single codebase.
- Implemented remote backend storage for Terraform state files in AWS S3, enhancing security.
- Designed reusable Terraform modules with variables for flexible configurations and efficient resource management.

Technologies: Terraform, AWS and Git.

SDA Kiganjo Church Choir | [Link](#)

A high-standard music platform tailored for SDA choir, enabling seamless collaboration and song management. The platform supports multi-user functionality, with dedicated features for trainers and members.

Features:

- Robust Role-based functionality: Separate dashboards for trainers and members, enhancing usability and efficiency resulting in 30% faster song assignments for trainers and improved member participation.
- Media management: Integration with Cloudinary for efficient song file and lyric storage led to a 40% reduction in load times for media files.
- Secure Platform: Authentication and authorization built for enhanced data security.
- Responsive design: Intuitive UI optimized for all devices, ensuring a seamless user experience.

Technologies: Next.js, Django, PostgreSQL, Tailwind CSS and Cloudinary.

INTERESTS

- **Riding:** Enjoy evening rides as a way to unwind after a busy day.
- **Playing piano:** Spend weekends immersed in music, perfecting piano pieces.