

Perpetua Ayogu

DevOps Engineer

Email: perpyayogu@gmail.com | Phone: 510-820-3736 | Location: Oakland, CA 94611

LinkedIn: [linkedin.com/in/ayogu-perpetua-b0b210236](https://www.linkedin.com/in/ayogu-perpetua-b0b210236) | Portfolio:

ubatrillion.wixsite.com/my-site

GitHub: github.com/devops-showcase

PROFESSIONAL SUMMARY

DevOps Engineer with 3+ years designing, automating, and managing secure, scalable cloud infrastructure on AWS, Azure, GCP, and DigitalOcean. Expert in Kubernetes, Docker, Terraform, and CI/CD pipelines using Jenkins, GitLab CI, and GitHub Actions. Proven in Infrastructure as Code (IaC), DevSecOps, observability, and cloud cost optimization. Reduced release times 50% at Monodome via Kubernetes auto-deployments, GitOps with Argo CD, and security-first IaC. Passionate about automation, continuous delivery, and empowering engineering teams.

TECHNICAL SKILLS

Cloud Platforms: AWS (EKS, EC2, RDS, S3, IAM, CloudWatch), Azure, GCP, DigitalOcean

Containers & Orchestration: Docker, Kubernetes, Helm, Nginx, Apache Tomcat, Rancher, Lens, Kubernetes Operators

Infrastructure as Code: Terraform, AWS CloudFormation, Argo CD (GitOps), Ansible

CI/CD Pipelines: Jenkins, GitHub Actions, GitLab CI, Tekton, GitHub Workflows

Scripting & Automation: Bash, Python, Go

Monitoring & Logging: Prometheus, Grafana, OpenTelemetry, CloudWatch, ELK Stack, EFK Stack.

Networking & Security: IAM Policies, VPC, HashiCorp Vault, Trivy, TLS, Cert-Manager, Security Groups

Databases & Caching: RDS, MySQL, PostgreSQL, Redis

Version Control & OS: Git, GitHub, Linux (Ubuntu, CentOS)

PROFESSIONAL EXPERIENCE

DevOps Engineer

Monodome (Remote)

July 2022 – Present

- Implemented Kubernetes auto-deployments on AWS EKS, reducing release times 50% and accelerating developer feedback cycles 50%.
- Built and maintained CI/CD pipelines in Jenkins and GitHub Actions, automating builds/tests/deployments and improving release reliability 40%.
- Automated machine learning workloads on AWS EKS via CI/CD pipelines, accelerating model delivery 60% and eliminating manual effort 100%.
- Deployed and managed a production-grade mail server on Kubernetes using Terraform Cloud, automating infrastructure provisioning and application delivery.
- Configured AWS networking resources including VPCs, subnets, NAT gateways, route tables, and security groups for secure and scalable multi-tier architecture.
- Developed reusable Terraform modules for AWS and DigitalOcean, standardizing infrastructure and reducing setup errors 70%.
- Adopted GitOps with Argo CD, enhancing deployment traceability 100%, rollback efficiency 80%, and environment sync 95%.
- Created multi-stage Docker builds with non-root users; deployed securely via AWS ECR and CI/CD, reducing vulnerabilities 90%.
- Strengthened cloud security/compliance via IAM roles, VPC design, TLS, and Trivy scanning, passing 100% of audits.
- Integrated Prometheus, Grafana, Loki, and OpenTelemetry for full observability, improving uptime 99.5%.
- Deployed Rancher on Kubernetes for centralized RBAC, enabling secure team onboarding in under 5 minutes.
- Collaborated with AI engineers to monitor ML workloads on EKS, optimizing resource allocation and saving 30% costs.
- Configured Terraform Cloud for versioned IaC management and automated workflows, reducing drift 100%.

- Authored DevOps documentation for Terraform/Rancher, supporting 20+ onboardings and ensuring 100% compliance.

DevOps Engineer Intern

Lagos, Nigeria

June 2021 – June 2022

- Containerized legacy applications with Docker and automated deployments, reducing manual time 70%.
- Supported AWS infrastructure and managed Kubernetes clusters for 99.9% uptime on scalable applications.
- Automated server/admin tasks with Bash/Python scripts, increasing operational efficiency 50%.

Cloud Architect Apprentice

ALX Africa (Remote)

April 2021 – September 2021

- Designed AWS architectures for scalability, high availability (99.99%), and disaster recovery
- Documented infrastructure, conducted resilience testing, and optimized costs by 25%.
- Collaborated on secure, fault-tolerant cloud environments supporting 10+ applications.

Community Manager Intern

Monodome (Remote)

March 2020 – March 2021

- Increased developer engagement 40% via events, documentation, and CI/CD adoption initiatives.
- Facilitated DevOps-developer collaboration, improving CI/CD pipeline usage 60%.

Secretary

Lagos, Nigeria

February 2019 – February 2020

- Managed documentation/scheduling for 50+ team members, improving workflow efficiency 30%.

KEY PROJECTS

DevOps Showcase: Cloud-Based Development Environment with CI/CD

Technologies: AWS EC2, GitHub Actions, Docker, AWS ECR, AWS SSM, CloudFront

Live Demo: <https://d2b91rhajw5ae9.cloudfront.net/>

GitHub: <https://github.com/devops-showcase/devops-showcase>

- Engineered automated cloud-native dev environment using code-server on AWS EC2.

- Built GitHub Actions CI/CD pipeline with Docker for zero-downtime deployments (99.99% uptime).

- Used AWS SSM for secure, agentless deployments (zero SSH access).

- Implemented CloudFront CDN, ECR image management, IAM auth, and GitHub Secrets.

- Demonstrated DevOps automation, cloud security, and scalable IaC design.

End-to-End Automation

- Automated provisioning/deployments with GitLab CI, GitHub Actions, Argo CD; reduced manual releases 80%.

Observability Enhancement

- Deployed Prometheus/Grafana dashboards; improved uptime 99.9% and incident response 70%.

DevSecOps Integration

- Embedded Trivy/Vault in CI/CD; achieved 100% vulnerability scanning and secrets management.

Cloud Cost Optimization

- Reduced AWS costs 35% via EC2 right-sizing, and RDS tuning.

DevOps Portfolio Website

Tech: Jenkins, Docker, AWS EC2, CloudFront, GitHub, Trivy, SSM, HTML, CSS, JavaScript

Built a personal DevOps portfolio website demonstrating a full CI/CD pipeline and DevSecOps practices from code commit to live deployment on AWS.

- Automated CI/CD pipeline with Jenkins triggered by GitHub commits to build, test, and deploy Dockerized app to AWS EC2.
- Deployed container images via AWS ECR and SSM, enabling seamless, zero-downtime updates.
- Integrated AWS CloudFront for global content delivery and faster load times.
- Secured pipeline with Trivy scans for vulnerabilities, secrets, and misconfigurations.
- Configured monitoring through Jenkins console and Docker logs for real-time visibility.

Live Demo: cloudfront.net/#contact | GitHub: github.com/devops-showcase/Devops-portfolio

EDUCATION & RELEVANT COURSEWORK

Bachelor of Arts in Mass Communication
University of Nigeria, Nsukka | 2022

RELEVANT TECHNICAL COURSEWORK & BOOTCAMPS

- Operating Systems & Networking – AWS Solution Architect Training
- Cloud Computing & IaC – Monodome
- Linux System Administration – KodeKloud

CERTIFICATIONS & CS BOOTCAMPS

- AWS Certified Cloud Practitioner
- Docker & Kubernetes Engineering – Monodome
- Infrastructure as Code with Terraform – Monodome -DevOps Foundations – KodeKloud
- AWS solution architect — ALX