

Andy Amponsah

DevOps Engineer | Cloud Solutions Specialist



Kumasi, Ashanti Region, Ghana

Professional Summary

DevOps Engineer with 3+ years of comprehensive experience in cloud infrastructure, automation, and CI/CD pipelines. Proven expertise in AWS cloud services, infrastructure as code (IaC), and implementing DevOps best practices to enhance system reliability and deployment efficiency. Former full-stack developer with strong Python and Django skills, bringing a unique perspective to infrastructure and deployment challenges. Passionate about creating scalable, secure, and automated solutions that bridge development and operations.

Professional Experience

AmaliTech – DevOps Engineer

April 2024 - Present

Kumasi, Ghana

- Design and implement CI/CD pipelines using Jenkins, reducing deployment times by 40%
- Automate infrastructure provisioning using Terraform and AWS CloudFormation
- Implement monitoring solutions with CloudWatch and Prometheus for system observability
- Containerize applications using Docker and orchestrate with Kubernetes
- Collaborate with development teams to establish DevOps best practices

AWS Terraform Jenkins Docker Kubernetes

Kryotech Software Solutions – Founder & Lead Developer

March 2018 - Present

Kumasi, Ghana (Remote)

- Developed and deployed 15+ Django web applications with CI/CD pipelines
- Implemented automated testing frameworks reducing bugs in production by 35%
- Migrated legacy systems to AWS cloud infrastructure, improving scalability
- Led a team of 3 developers in agile software development projects
- Provided cybersecurity consulting for small and medium businesses

Django Python AWS CI/CD Cybersecurity

National Service Secretariat – Coding Instructor

March 2024 - April 2025

Kumasi, Ghana

- Developed and delivered curriculum for Python programming fundamentals
- Taught web development using HTML, CSS, JavaScript and Django
- Mentored 50+ students in software development best practices
- Implemented project-based learning approach with GitHub collaboration

Education

AWS re/Start Program

2024

AmaliTech Ghana

Intensive cloud computing program covering AWS fundamentals, Linux, networking, security, and automation

Bachelor of Arts in Social Studies & History

2019 - 2023

University of Ghana

Combined Major, GPA: 3.55/4.0

Google IT Support Professional Certificate

2021

Google (Coursera)

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services

Issued 2024

Google IT Support Specialist

Google

Issued 2021

Python for Everybody Specialization

University of Michigan

Issued 2021

Docker Certified Associate

Docker Inc.

In Progress

Technical Skills

Cloud & DevOps

- ✓ AWS (EC2, S3, Lambda, RDS)
- ✓ Terraform & CloudFormation
- ✓ CI/CD (Jenkins, GitHub Actions)
- ✓ Docker & Kubernetes

Programming

- ✓ Python (Django, Flask)
- ✓ Bash/Shell Scripting
- ✓ JavaScript (Node.js)
- ✓ SQL & NoSQL Databases

Other Technologies

- ✓ Linux System Administration
- ✓ Monitoring (Prometheus, Grafana)
- ✓ Git & GitHub/GitLab
- ✓ Agile & Scrum Methodologies

Notable Projects

Peer Review Hub

Designed a dashboard that will keep track of my Peer Reviews

- Built using html, css, and javascript
- Hosted entirely on github page
- This project helps me track my improvement through time
- Live App: https://guderian120.github.io/peer_reviews/index.html

Cloud WorkSpace Provisioning

Architected a robust user management system where sysAdmins can provision cloud workspace

- Built using Django, Pandas, and AWS EC2
- Integrated Github Actions for full CI/CD automation including testing and deployment
- Enabled seamless and reliable updates via GitHub commits
- Live App: https://github.com/guderian120/Bash_User_management_System

Task Management App with Semaphore CI/CD

Developed and deployed a Django-based task management app using Semaphore CI/CD and PythonAnywhere

- Built using Django, MySQL, and hosted on PythonAnywhere’s free tier
- Integrated Semaphore for full CI/CD automation including testing and deployment
- Enabled seamless and reliable updates via GitHub commits
- Live App: <https://guderian.pythonanywhere.com/>

Automated CI/CD Pipeline for Django Applications

Implemented Jenkins pipeline with automated testing and deployment to AWS

- Reduced deployment time from 15 minutes to under 2 minutes
- Integrated automated testing with 95% code coverage
- Implemented blue-green deployment strategy

Infrastructure as Code with Terraform

Automated AWS infrastructure provisioning for web applications

- Reduced infrastructure setup time from days to minutes
- Implemented modular Terraform configurations for different environments
- Integrated with AWS Secrets Manager for secure credential management

Kubernetes Cluster for Microservices

Designed and deployed EKS cluster for containerized applications

- Improved application scalability and availability
- Implemented autoscaling based on custom metrics
- Reduced infrastructure costs by 30% through efficient resource utilization