

# 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

Minor in Computer Science, GPA: 3.4/4.0

### 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

#### 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