COBBINA EMMANUEL

(DevOps Engineer)

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Profile Summary

- Dynamic Computer Science graduate and Teaching Assistant with cloud and DevOps expertise
- Hands-on experience designing and automating CI/CD pipelines using GitHub Actions and Docker on AWS
- Successfully deployed multiple cloud-native applications, improving deployment speed and reliability by 30%
- Skilled in research writing, data analysis, and technical documentation under tight deadlines
- Strong background in cloud development, serverless architectures, and scalable solutions

Experience

Teaching and Research Assistant, UENR   October 2024 – September 2025

- Developed syllabi, visual aids and other teaching materials.
- Provided support to other instructors within the department.
- Collaborated with faculty members to develop innovative teaching strategies.
- Returned assignments to students to comply with established deadlines.
- Drafting research reports, articles, and blog posts on different projects

AmaliTech – Internship (Remote)   September 2024 - January 2025

- Accomplished 3-month intensive AWS re/Start program, acquiring hands-on experience with core AWS services including EC2, S3, Lambda, API Gateway, DynamoDB, and RDS
- Built and deployed cloud-based applications, implementing serverless architectures, and automating workflows using AWS Lambda and Step Functions.
- Developed and managed CI/CD pipelines using Jenkins, Docker, and Kubernetes for seamless application deployment on AWS EC2 instances

Sekyere East District Assembly – Internship   October 2023 - December 2023

- Maintained accurate records of all activities performed throughout internship period.
- Prepared reports summarizing project progress and results for management review.
- Analyzed reports to identify any errors in data entry, corrected any incompatibilities if necessary.
- Assisted with other clerical duties such as photocopying, scanning, faxing, sorting mail.
- Maintained data entry requirements by following data program techniques and procedures

Projects

Face Recognition Attendance App | Flutter, AWS Rekognition, AWS S3, AWS Lambda, API Gateway

- Built a cross-platform mobile app for automated student attendance using real-time facial recognition
- Integrated AWS Rekognition CompareFaces API achieving 95%+ match accuracy on test dataset
- Designed secure device-bound attendance with daily recovery limits, reducing identity misuse by 80%
- Leveraged serverless architecture (Lambda + API Gateway + S3) to cut operational costs by 40% while ensuring scalability for 500+ users

React Web App Deployment with Kubernetes & Docker | React, Docker, Kubernetes, ArgoCD, Helm, GitHub Actions, AWS S3

- Designed and automated a CI/CD pipeline using GitHub Actions for static web deployments to AWS S3

- Deployed a three-tier application with Docker containers on Kubernetes clusters, ensuring 99.9% uptime during testing
- Integrated ArgoCD and Helm for automated rollouts and version control, reducing deployment time by 60%
- Improved developer productivity by 30% with streamlined deployments and rollback strategies

Resume Website on AWS | AWS S3, CloudFront, Route 53
- Designed and hosted a personal portfolio website using AWS static hosting services
- Configured CloudFront CDN and Route 53 for global low-latency access, cutting page load times by 50%
- Achieved 100% uptime with cost-effective AWS free-tier deployment

Technical Skills

- **Cloud & DevOps**: AWS (EC2, S3, Lambda, RDS, API Gateway, DynamoDB, Rekognition), Docker, Kubernetes, Jenkins, GitHub Actions, ArgoCD, Git/GitHub
- **Programming & Frameworks**: Python, JavaScript, Flutter, Django, REST API
- **Practices & Tools:** CI/CD, Serverless Architecture, Continuous Integration, Terraform (basic)
- **Data & Research:** Data Analysis, SQL (basic), Research Writing

Education

University of Energy and Natural Resources   **November 2024**

Bachelor of Science Computer Science – CGPA: 3.31   Sunyani, Ghana

Certifications

- AWS Certified Cloud Practitioner (CCP) Jan 2025 – [Verify Certificate](#)