Mangu Nehinlalei Cletus

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PROFESSIONAL SUMMARY

DevOps engineer and AWS Certified Solutions Architect with 2+ years of experience in cloud infrastructure. Designed and deployed scalable AWS solutions that reduced deployment time by 60% and improved system reliability by 40%. Skilled in infrastructure as code (Terraform), CI/CD automation, and cloud-native architectures. Focused on delivering practical, secure, and cost-efficient solutions that support digital growth in emerging communities.

EDUCATION

BSc. Computer Engineering   **September 2019 - August 2023**
Kwame Nkrumah University of Science and Technology (KNUST)   *Kumasi, Ghana*

WORK EXPERIENCE

DevOps Engineer   **April 2025 – present**
AmaliTech Gh   *Kumasi, Ghana*
- Built CI/CD pipelines with GitHub Actions, cutting deployment time by 60%.
- Deployed Docker-based apps and provisioned infrastructure using Terraform on AWS (EC2, S3, IAM).
- Collaborated in Agile team to apply monitoring/logging practices, boosting system uptime to 99.5%.

AWS Cloud Intensive – Solutions Architect   **February 2025 – June 2025**
Azubi Africa   *Kumasi, Ghana*
- Completed 20+ labs across EC2, Lambda, RDS, VPC, IAM, and CloudFormation.
- Designed scalable AWS architectures using the Well-Architected Framework, reducing costs by 30%.
- Delivered secure, high-availability environments using Terraform and CloudFormation.

National Service – Teaching/Research Assistant   **November 2023 – September 2024**
Department of Computer Engineering-KNUST   *Kumasi, Ghana*
- Supported 8 faculty in instructing 200+ students across lectures and assessments.
- Guided 25 students on research projects, achieving 95% completion rate.
- Created tutorials and study guides, improving student performance by 25%.

Intern – Computer Repairs and Sales   **February 2020 – January 2020**
JB Computer Service   *Sawla, Ghana*
- Diagnosed/resolved 50+ client system issues weekly (hardware/software).
- Standardized OS setup workflows, cutting configuration time by 40%.
- Assisted customers with system purchases, raising monthly sales by 20%.

NGO – Founder and Lead   **July 2020– present**
Basic Resilience Mentorship Program   *Sawla, Ghana*
- Launched community programs reaching 500+ individuals across rural areas.
- Led 15+ resilience workshops with 85% participant retention.
- Built partnerships with schools and 2 NGOs, increasing outreach by 50%.

CERTIFICATIONS

- AWS Solutions Architect – *AWS*
- AWS Cloud Practitioner – *AWS*
- AWS Re/Start – *AmaliTech GH*
- Systems and Networking – *UITS-KNUST*
- Transforming Leadership and Governance (Parts 1-4) – *International Leadership Foundation (ILF)-GH*

PROJECTS

Task Management System | *React, AWS Lambda, DynamoDB, GraphQL, Terraform* |
- Built serverless app for 500+ users with 99.9% uptime.
- Integrated Cognito-based MFA and JWT login, cutting auth delays by 50%.
- Automated CI/CD pipelines with GitHub Actions, reducing releases from days to hours.
- Delivered live task updates using GraphQL subscriptions for real-time team sync.

ShopEase LTD Cloud Migration | *Terraform, AWS VPC, EC2, RDS, ALB, Auto Scaling* |
- Deployed scalable AWS infra across 3 AZs, sustaining 99.95% uptime.
- Secured traffic with IAM, security groups, and bastion architecture — 0 security breaches.
- Configured auto-scaling to handle 500% traffic bursts under 2s latency.
- Enabled 24/7 observability using CloudWatch logs and metrics dashboards.

AWS Translate Serverless Application | *React, AWS Lambda, S3, API Gateway, Cognito, Terraform* |
- Processed 1000+ documents/day via fully serverless translation flow.
- Built Cognito-authenticated React frontend for 200+ concurrent users.
- Automated infra provisioning with GitHub Actions, cutting setup time by 80%.
- Secured API Gateway–S3 pipeline handling large (50MB) multilingual files.

Catalog Server – Complete E-commerce Solution | *React, Flask, PostgreSQL, AWS, Terraform* |
- Developed platform supporting 100+ products with dynamic filtering/search.
- Optimized AWS infrastructure with Terraform, saving 25% in resource costs.
- Integrated secure login with Cognito and JWT, ensuring 99.8% auth success.
- Built REST API to manage inventory and queries with 60% faster response.

Journalist Portfolio Website | *React, Tailwind CSS, Netlify* |
- Deployed web-optimized site (98% Lighthouse score; 90+ PageSpeed).
- Enabled contact form via FormSubmit, increasing lead inquiries by 30%.
- Optimized static site builds with CDN for global loads under 1s.

SKILLS AND ABILITIES

Technical Skills:
- Programming & Scripting: Python, Bash, YAML, JavaScript.
- Cloud Platforms: AWS (EC2, S3, RDS, ECS, Lambda, Cognito, CloudFormation).
- Infrastructure as Code: Terraform, AWS CloudFormation.
- DevOps & CI/CD: GitHub Actions, Jenkins, Docker, Ansible, Kubernetes.
- Development Tools: VS Code, Git, GitHub.
- Project Management: Jira, Trello, Asana, Google Workspace.
- Communication: Slack, Microsoft Teams, Zoom, Google Meet

Soft Skills: Effective Communication | Critical thinking | Problem-solving | Leadership and Teamwork | Multitasking |

REFERENCES

Name: Professor Emmanuel Kofi Akowuah:
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