Emmanuel Frimpong Kyei-Baffour

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PROFESSIONAL SUMMARY

Cloud & DevOps Engineer with experience building CI/CD pipelines, deploying scalable cloud infrastructure, and implementing serverless architectures. Skilled in AWS, Kubernetes, Terraform, Docker, Jenkins, and GitHub Actions, delivering measurable improvements in deployment speed, system reliability, and operational efficiency.

EDUCATION

Kumasi Technical University   *09/ 2019 – 04 2022*

B.Tech Accounting with Computing

Kumasi Technical University   *09/ 2016 – 06/ 2019*

Higher National Diploma, Accounting with Computing

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- AWS Certified Solutions Architect – Associate
- ISC² Certified in Cybersecurity (CC)
- Certified Cybersecurity Educator Professional
- Microsoft Security Compliance & Identity Fundamentals
- Google IT Support Professional Certificate
- Ms Cloud Computing Security – **Illinois Institute of Technology (Non-credit, Coursera)**
- Cloud Engineering Training – **Azubi Africa**   *02/2025 – 06/2025*

PROFESSIONAL EXPERIENCE

Cloud & DevOps Engineer
GETINNOTIZED GmbH – Germany (Remote)   *10/ 2025 – Present*

- Implemented standardized workflows with Conventional Commits, PR templates, and pre-commit hooks, improving team delivery efficiency by 50% and reducing faulty commits by 30%
- Engineered CI/CD pipelines using GitHub Actions, Docker integrating linting, unit tests, integration tests, and Bandit security scans, increasing deployment reliability by 60%.
- Streamlined image build processes by writing 3 multi-stage Dockerfiles, improving deployment consistency and reducing build times by 1 hour.
- Deployed Docker Compose environments with env.example, shortening onboarding/setup time 70%.
- Authored CONTRIBUTING.md and onboarding documentation, accelerating team ramp-up 40%.

Casual Worker -Accounts Department   *02/ 2023 – 02/2025*
Bosome Freho District Assembly

- Maintained digital financial records and secure backups, protecting sensitive data.
- Supported GIFMIS, accounting system, ensuring accurate and timely reporting.
- Introduced a structured archiving system that minimized data-loss exposure and increased retrieval efficiency.

PROJECT EXPERIENCE

Microservice　　　　　　　　　GitHub: microservice　　　　　*10/2025 – 11/2025*
- Formulated CI/CD pipelines, reducing deployment time by 70%.
- Provisioned AWS EKS, VPC, and ECR via Terraform to enable consistent, repeatable infrastructure deployment.
- Managed GitOps workflows with ArgoCD, delivering continuous sync, rollback capabilities, and cluster self-healing.
- Enabled Prometheus + Grafana, reducing Mean Time to Detect (MTTD) 40%.
- Delivered production-ready microservice with 94% test coverage, reducing regression incidents.

Serverless Order Processing System　　GitHub: Order Processing System　*10/2025 – 11/2025*
- Architected event-driven architecture processing 100+ orders/min with 99.9% uptime.
- Optimized cloud infrastructure costs by 60% via serverless design.
- Orchestrated CI/CD pipelines and added X-Ray/CloudWatch monitoring to enhance observability.

Java Web Application CI/CD Pipeline　GitHub: Web Application　　*09/2025 – 10/2025*
- Developed full CI/CD pipeline**:** build, test, quality scan, deployment.
- Integrated SonarQube quality gates and Checkstyle**,** increasing maintainability and reducing vulnerabilities.
- Refined multi-stage Docker images, boosting deployment speed.
- Configured AWS ECR + ECS rolling updates for zero-downtime deployments.

Serverless Event Management System　GitHub: Event-Announcer　　*08/2025-09/2025*

- Launched a fully serverless event announcement platform on AWS (Lambda, API Gateway, SNS, S3) with Terraform, eliminating infrastructure maintenance overhead.
- Automated email notifications via SNS and Lambda, attaining >99% message delivery during tests.
- Hardened REST APIs with IAM least-privilege access and CORS configuration, enhancing security posture and reliability.
- Scaled architecture for scalable use, validating performance with thousands of simulated requests while keeping development costs under $1/month.

TECHNICAL SKILLS & TECHNOLOGIES

- **Cloud Platforms:** AWS (EKS, ECS, Lambda, EC2, S3, RDS, Route 53, API Gateway, DynamoDB, CloudFront, CloudFormation)
- **DevOps & CI/CD Automation:** GitHub Actions, Jenkins, Docker, Kubernetes (EKS), ArgoCD, Docker Compose
- **Security & Networking:** VPC, Subnets, Security Groups, IAM, ALBs, Load Balancing, Route 53
- **Monitoring & Observability:** Prometheus, Grafana, CloudWatch, AWS X-Ray
- **Infrastructure as Code & Automation:** Terraform, AWS CloudFormation, Ansible
- **Scripting & Programming:** Python, Bash, SQL
- **Containers & Orchestration:** Docker (multi-stage builds), Kubernetes (Helm charts, GitOps workflows)
- **Operating Systems & Administration:** Linux (Ubuntu, CentOS), Shell Scripting, System Automation