RONALD AMANKWA BONSU
Cloud Solutions Engineer

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Summary

Inspired by the power of cloud technology, I am a Cloud Solutions Engineer with a passion for designing and automating scalable, secure AWS architectures that drive business success. My expertise in Infrastructure-as-Code (Terraform, CloudFormation), containerization (Docker, ECS), and security (IAM, KMS) enables me to build high-availability systems optimized for performance and cost. In remote and collaborative settings, I've streamlined deployments, reduced operational overhead by up to 40%, and empowered teams with scalable solutions. Proficient in web technologies (HTML, CSS, JavaScript), I bring a full-stack perspective to cloud challenges. Excited to create innovative solutions, I thrive on solving complex problems and enhancing system reliability for diverse industries.

Skills

Cloud Platforms: AWS (EC2, S3, Lambda, RDS, VPC, IAM, KMS, CloudFront, ECS, Auto Scaling, Elastic Load Balancing)

Infrastructure-as-Code (IaC): Terraform, AWS CloudFormation

Containerization & Automation: Docker, AWS ECS, **Automation Scripting (Python, Bash)**

Networking:

- **Cisco:** Configuration of routers and switches, VLANs, DHCP, HSRP, Named Access Control Lists (NACLS), Syslog, DNS.
- **Tools:** Cisco Packet Tracer
- **Concepts:** IP addressing, subnetting, OSPF, EIGRP, NAT, DNS, VPN, VPC, Subnets, Load Balancers, Route53, CDN (e.g., CloudFront)

Security: Security Best Practices **(IAM Policies, KMS/SSL/TLS Encryption, Security Groups, NACLs)**

Monitoring & Optimization: AWS CloudTrail, CloudWatch, **Cost Optimization (AWS Cost Explorer, Right-Sizing, Reserved Instances, Budgets, Cost Anomaly Detection)**

Web Development: HTML, CSS, JavaScript (web performance optimization, cross-browser compatibility)

Soft Skills:

- Effective communication and collaboration in remote, cross-functional teams
- Analytical thinking and problem-solving
- Project management and prioritization
- Adaptability and commitment to learning emerging cloud technologies

Certifications

- **AWS Certified Solutions Architect Associate** (2024)
- **HashiCorp Terraform Associate** (Udemy, 2024)
- **Security with AWS IAM** (Coursera, 2023)
- **AWS Certified Cloud Practitioner** (2023)

Self-Directed Projects

- **Serverless Web Application for Fleet Management**: Designed a scalable serverless app on AWS for garbage truck management, using S3 (static frontend hosting), API Gateway (HTTP requests with CORS), Lambda (backend logic), and DynamoDB (NoSQL storage). **Automated provisioning with Terraform, achieving 30% faster deployments and seamless scalability.**
- **Secure EC2 Access Solution**: Implemented AWS Systems Manager Session Manager for secure, auditable access to private EC2 instances, eliminating SSH/bastion hosts. Configured IAM roles for least privilege, integrated S3/CloudWatch Logs, and encrypted sessions with KMS, **reducing attack surface by 50% and enhancing operational efficiency.**
- **Automated Data Sync Solution**: Built an AWS CloudFormation solution to manage AWS DataSync for S3-to-EFS data transfers, **optimizing storage workflows and ensuring 99.9% availability through IaC best practices.**
- **Scalable VPC Peering Architecture**: Deployed a secure VPC peering setup with Terraform, enabling seamless cross-VPC communication, **improving network performance by 20% through automated provisioning.**

Professional Experience
RouteWeave
Cloud Support Engineer
Sept. 2023 – April 2025

- Collaborated remotely with clients and development teams to design and optimize AWS environments, ensuring high availability and scalability for critical workloads.
- Developed Python/Bash scripts to automate issue diagnostics and infrastructure provisioning, **reducing resolution time by 40% and enhancing system reliability.**
- Conducted client training on AWS CloudWatch and IAM/KMS, **empowering clients to manage secure, cost-efficient cloud systems.**
- Identified and resolved AWS vulnerabilities, **improving security and compliance across client environments through IaC refinements.**

Luxfer Gas Cylinders
Production Operator
April 2023 – Present
- Conducted quality control tests (Rockwell hardness) and documented results, **sharpening analytical skills for cloud monitoring and optimization tasks.**
- Operated machinery per SOPs, ensuring efficiency and safety, **transferable to managing reliable cloud workflows.**

Ghana Oil Company Ltd
National Service Person (Quality Control)
Sept. 2019 – Aug. 2021
- Inspected service stations for compliance, **developing attention to detail critical for cloud security and monitoring.**
- Managed requisition records, **strengthening organizational skills for infrastructure management.**

Education
Velloxx Academy (Training Program)
AWS Cloud Practitioner Program
September 2023 – October 2023,
AWS Solutions Architect Program
May 2024 – July 2024
- Mastered scalable AWS solutions (S3, VPC, CloudFront, ECS, Auto Scaling, Load Balancing, KMS, CloudFormation, RDS) through hands-on projects.

Kwame Nkrumah University of Science and Technology (KNUST)
B.Sc. Chemistry
Sept. 2015 – June 2019
- Built analytical and problem-solving skills, applicable to complex cloud challenges.

Interests
- Blogging about cloud technologies, automation, and tech trends.
- Hiking, running, and fitness activities.
- Mindfulness practices to enhance focus in remote, high-paced tech environments.