RONALD AMANKWA BONSU

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Summary: I am a Cloud Solutions Engineer with a passion for designing and implementing scalable cloud architectures that meet both technical and business needs. I have expertise in cloud platforms like AWS, with a focus on optimizing performance, security and cost efficiency. Whether it's automating deployments with infrastructure-as-code (IaC) tools such as Terraform and CloudFormation or troubleshooting complex issues.

I'm also proficient in front-end and back-end technologies, including HTML, CSS and JavaScript. Skilled in optimizing web performance, ensuring cross-browser compatibility, and implementing modern design principles. I love finding innovative solutions that make systems run smoother and teams more productive.

SKILLS

- **Cloud Platforms:** AWS (EC2, S3, Lambda, RDS).
- **Infrastructure-as-Code (IaC):** Terraform and AWS CloudFormation.
- **Containerization:** AWS ECS and Docker.
- **Scripting Languages:** Python, Bash, PowerShell.
- **Networking:** VPC, VPN, Subnets, Load Balancers, Route53, DNS, CDN (e.g., CloudFront).
- **Monitoring & Logging:** AWS CloudTrail and CloudWatch
- **Security:** IAM Policies, Encryption (KMS, SSL/TLS), Security Groups, NACLs.
- **Cost Optimization:** AWS Cost Explorer, Right-Sizing, Reserved Instances, AWS Budgets.
- **Web Developing:** HTML, CSS and JavaScript.

SOFT SKILLS

- Strong communication and collaboration abilities.
- Analytical thinking and problem-solving.
- Project management and prioritization.
- Adaptability and eagerness to learn emerging technologies.

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Security with AWS IAM (Coursera)
- AWS Solution Architect Associate
- HashiCorp Terraform Associate (Udemy)

SELF – DIRECTED PROJECTS

- Designed and deployed a highly decoupled serverless web application for managing a fleet of garbage trucks on AWS, utilizing S3 for static frontend hosting, API Gateway for handling HTTP requests with CORS configuration, Lambda for backend logic execution, and DynamoDB as a scalable NoSQL database. Each component operates independently, enabling seamless scaling, reduced operational overhead, and enhanced flexibility. Infrastructure was provisioned using Terraform, ensuring consistency and automation across environments.
- Designed and implemented AWS Systems Manager Session Manager to provide secure, auditable, and browser-based access for developers and system administrators to private EC2 instances without requiring SSH or bastion hosts. I configured IAM roles and policies to enforce least privilege access, ensuring users could only access the resources they were authorized to manage. To enhance security and compliance, I enabled logging of all session activity by integrating with Amazon S3 and CloudWatch Logs, encrypting both the sessions and logs using AWS KMS. This approach improved operational efficiency, eliminated the need for key management, reduced the attack surface, and ensured all data was securely encrypted at rest and in transit.
- Implemented an automated data transfer solution using AWS CloudFormation to provision and manage AWS DataSync operations. Designed infrastructure-as-code templates to seamlessly synchronize data between S3 and EFS, optimizing storage workflows and ensuring high availability. Enhanced deployment efficiency and scalability by leveraging infrastructure automation best practices.
- Designed and deployed a secure, scalable VPC peering architecture using Terraform to enable seamless communication between AWS VPCs. Implemented infrastructure-as-code best practices to automate network provisioning, optimize connectivity, and enhance cross-VPC resource access.

EXPERIENCE

RouteWeave

Cloud Support Engineer

Sept. 2023 – Present

Responsibilities:

As a Cloud Support Engineer, I provided technical support for cloud-based solutions, resolving complex issues and ensuring seamless operations for clients. I worked closely with customers to troubleshoot and optimize cloud environments while delivering guidance on best practices. My role also involved identifying recurring problems and implementing long-term solutions to enhance system reliability.

Achievements:

- Developed automated scripts to streamline issue diagnostics, reducing resolution time by 40%.
- Conducted training sessions for customers, empowering them to better manage their cloud environments.
- Identified critical system vulnerabilities, contributing to improved security across client systems.

Ghana Oil Company Ltd

National Service Person (Quality Control)

Sept 2019- Aug. 2022

- Inspecting and ensuring that service stations have the right products distributed to them and the right safety equipments are available at various stations.
- Recording the requisitions of various density kits available at the Accra Regional Office.

EDUCATION

Velloxx Academy

May 2024 – July 2024

- Completed the AWS Solutions Architect Program, a comprehensive 12-week course.
- Developed proficiency in Advanced architecting services, including S3, VPC, AWS Organizations, CloudFront, AWS ECS, AWS Autoscaling groups, AWS Elastic Load Balancing, AWS KMS, AWS CloudFormation and Amazon RDS.
- Gained hands-on experience designing, deploying, and managing scalable and secure AWS cloud solutions.

Kwame Nkrumah University of Science and Technology (KNUST)

B.Sc. Chemistry   Sept. 2015 –June 2019

INTERESTS

- Blogging or creating content about tech trends.
- Hiking, running, or other fitness activities.
- Meditation or mindfulness practices to improve focus.