**GODWILL NGWANAH**

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*Plano, Texas 75024:* **US****Citizen**

#### **SUMMARY**

#### Highly accomplished and solutions-oriented IT Professional with broad based knowledge in Systems Design and Development, implementing and integrating cost-effective, high performance technical solutions and cloud implementations to meet challenging business needs.

* Cognitive about designing, deploying and operating highly available, scalable and fault tolerant systems using Amazon Web Services (AWS).
* Proficient in writing CloudFormation Templates (CFT) in YAML and JSON format to build the AWS services with the paradigm of Infrastructure as a Code.
* Highly skilled in deployment, data security and troubleshooting of the applications using AWS services.
* Experienced in implementing Organization DevOps strategy in various operating environments of Linux and windows servers along with cloud strategies of Amazon Web Services.
* Possess high working qualities with good interpersonal skills, high motivation, fast learner, good team player and very proactive in problem solving to provide best solutions.

#### Experience in onsite / offshore development model, including remote work.

* Experienced with installation of AWS CLI to control various AWS services through SHELL/BASH scripting.
* Provide experienced leadership in developing the architecture of highly scalable, highly available, Cloud (IaaS, PaaS, SaaS) detailed blueprints and platform requirements.

#### **Certifications**

* Oracle Business Intelligence Foundation Suite 11g Certified Implementation Specialist
* AWS Certified Solution Architect – Associate
* AWS Certified Solution Architect – Professional
* AWS Certified Developer - Associate

#### **PROFESSIONAL EXPERIENCE**

#### **BANK OF AMERICA Plano, TX**

#### **Contractor – AWS Solution Architect October 2017 - Present**

* Responsible for architecting, and provisioning for AWS resources as IaaC for network, compute and database resources.
* Create, update network ACLs, through aws command line interface
* Proficient in AWS services like VPC, EC2, S3, ELB, AutoScalingGroups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
* Experienced in creating CloudFormation stacks to provision for VPC’s, public & private subnets, NAT, RTs as per requirement and distributed them as groups into various availability zones of the VPC.
* Used security groups, network ACL’s, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
* Worked with Amazon glue service, including deploying data catalogs, database, table, crawler, job, scheduler and s3 data lake to transform data.
* Manage Fortigate and prisma firewall routers as addition traffic delegation into and out of aws vpc
* Create and manage teamwise security for github repo for dev QA and Prod environments.
* Manage recovery and failover plan for all environment.
* Setup WAF in font of web applications for security and vulnerabilities
* Migrate application and database to aws using using 6Rs strategy for migrating to aws
* Check health and performance of containers running inside nodes of EKS cluster using elasticsearch cluster.
* Used Grafana for monitoring DevOps CI/CD pipeline
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Created S3 buckets in the AWS environment to store files required to serve static content for a web application.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java.
* Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
* Setup cloud intranet for internal portal for application running in EC2 instance and service running on aws platform
* Configure routing in FortiGate firewall to filter traffic for machines setup for internal users
* Created hosted zone in Route53 and create routing policies to route traffic for web domain name to applications sitting on the cloud
* Facilitated DevOps CI/CD projects for web application development within AWS
* Create CI/CD pipelines using Jenkins and AWS CodePipeline to build applications using containers in EKS cluster.
* Created Fargate profile in EKS cluster, and also created task to deploy containers to EC2 instances.
* Provision of AWS managed elasticsearch instance to ingest application container logs
* Integrate elasticsearch with cloudwatch to stream application log files
* Use Terraform to provision new resources in aws and also update existing resources within aws cloud services.

#### **STATE OF NEW YORK Albany, NY**

#### **Consultant – AWS Solution Architect November 2014 – October 2017**

* Created a fault tolerance cluster by implementing Elastic Load Balancer and also definitely path base routing policies.
* Installed and configured Nginex with SSL certificate and FQDN in dev, QA and Prod.
* Developed and implemented software release management strategies for various applications as per agile process.
* Managed Amazon redshift clusters such as launching the cluster by specifying the nodes and performing the data analysis queries.
* With the help of IAM created roles, users and groups and attached policies to provide minimum access to the resources.
* Created topics in SNS to send notifications to subscribers as per the requirement.
* Provision of AWS managed elasticsearch instance to ingest application container logs
* Worked on the databases of the Amazon RDS and carried out functionalities for creating instances as per the requirements.
* Designed Java API to connect the Amazon S3 service to store and retrieve the media files.
* Implemented Amazon RDS multi-AZ for automatic failover and high availability at the database tier.
* Configured AWS CLI and performed necessary actions on the AWS services using shell scripting.
* Implemented CloudTrail in order to capture the events related to API calls made to AWSinfrastructure.
* Defined all server types in Ansible, so that a newly built server could be up and ready for production within 30 minutes OS installation.
* Enabled Continuous Delivery through Deployment into several environments of Test, QA, Stress and Production using Jenkins.
* Created a hosted zone with primary and secondary record set for failover routing policy using Route53
* Provision aws resources using terraform templates
* Migrated a monolith application in on-prem to docker containers in aws using ECS service, ECR, Jenkins and Github repo.

**STRYKER INSTRUMENTS Kalamazoo, MI**

**Consultant – AWS Solution Architect June 2013 - November 2014**

* Created CloudFront distributions to serve content from edge locations to users so as to minimize the load on the frontend servers.
* Configured private and public FQDN for Dev,QA,Prod EC2, instances and Load balancers by creating respective records in internal DNS server and using Route53 for public internet hostname.
* Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets and EBS.
* Configured and maintained the monitoring and alerting of production and corporate servers/storage using Cloud Watch.
* Installed and configured Nginex with SSL certificate and FQDN in dev, QA and Prod.
* Migrated applications from internal data center to AWS.
* Maintained edge location to cache data with CDN using Cloud Front to deliver data with less latency.
* Scaled distributed in-memory cache environment in the cloud using Elastic cache.
* Managed automated backups and created own backup snapshots when needed.
* Provided installation & maintenance of Puppet infrastructure and developed Puppet manifests & modules for configuration management.
* Created Jenkins programmatic user in AIM with appropriate group assigned policy for Jenkins configuration and CI/CD setup.
* Deployed and configured Git repositories with branching, tagging, and notifications. Experienced and proficient in deploying and administering GitHub.
* Configured Linux environments in both public and private domains.

**WYSE TECHNOLOGY San Jose, CA**

**Consultant - OBIEE Developer/AWS Solution Architect June 2008 - April 2013**

* Develop reports using OBIEE for GHR and LOB for analysis and business use.
* Create schemas, tables, and stored procs for batch uploads in SQL Server.
* Created interactive and dynamic reports and dashboards based on requirement from client
* Build and modeled physical, business and presentation layers in the rpd.
* Import and created snow flake schemas in rpd to create high performance reports and dashboards
* Received internal AWS training in transitioning to cloud base resources.
* Integrated Amazon Cloud Watch with Amazon EC2 instances for monitoring the log files and track metrics.
* Created AWS S3 buckets, performed folder management in each bucket, managed cloud trail logs and objects within each bucket.
* Created Highly Available Environments using Auto-Scaling, Load Balancers, and SQS.
* Defined branching, labeling, and merge strategies for all applications in Git.
* Configured Elastic Load Balancers with EC2 Auto Scaling groups
* Experienced in S3 Versioning and lifecycle policies to and backup files and archive files in Glacier
* Experienced in Performance Tuning and Query Optimization in AWS Redshift.
* Ability to design application on AWS taking advantage of Disaster recovery.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication.
* Worked on CI/CD tool Jenkins to automate the build process from version control tool into testing and production environment.

**Education**

Bachelors of Science in Computer Science at University of Buea, Cameroon 2008

#### **TECHNICAL SKILLS PROFILE:**

* **AWS Services:** EC2, S3, ELB, Auto scaling Groups, Glacier, EBS, Elastic Beanstalk, Cloud Formation/Terraform, Cloud Front, RDS, Redshift, VPC, Direct Connect, Route 53, Cloud Watch, Cloud Trail, OpsWorks, IAM, Dynamo DB, SNS, SQS, ElastiCache, RedShift, EMR, Lambda.
* **CI/CD Tools:** Github, Gitbucket, Jenkins, Bamboo, AnthillPro
* **Web Technologies:** HTML5, CSS3, Twitter Bootstrap, Media Queries, XML, JS/JQuery
* **Programming:** JSON, YAML, html, C, C++, Core JAVA, Python, Perl, Ruby, MATLAB, SQL/PLSQL
* **Database Software:** Oracle, MySQL, SQLServer, MongoDB, DynamoDB
* **Servers:** Apache Tomcat, WebLogic, WebSphere, JBoss, Nginx, IIS
* **Methodologies:** Oracle AIM, SDLC, Waterfall, Agile, DevOps
* **Operating Systems:** MS Windows, UNIX/LINUX, Ubuntu.