

JECINTA UMEOHANA ONYINYECHI

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineering professional with hands-on experience designing and deploying cloud-native infrastructure and serverless applications on AWS. Demonstrated expertise in Infrastructure as Code (IaC) using Terraform, containerization technologies, and CI/CD pipeline implementation. Proven ability to architect scalable, secure, and cost-effective solutions while reducing infrastructure costs and improving system performance by 30%. Seeking a DevOps Engineer Internship to leverage technical skills in automation, cloud computing, and continuous integration to drive operational excellence and accelerate software delivery.

TECHNICAL SKILLS

Cloud Platforms & Services

Amazon Web Services (AWS): EC2, VPC, S3, Lambda, DynamoDB, CloudFront, API Gateway, Route 53, Application Load Balancer (ALB), Auto Scaling Groups, Security Groups, IAM, NAT Gateway, Internet Gateway

Infrastructure as Code (IaC) & Configuration Management

Terraform, Ansible, Infrastructure Automation, Version Control

Containerization & Orchestration

Docker, Kubernetes, Container Management

CI/CD & DevOps Practices

Continuous Integration/Continuous Deployment (CI/CD), Pipeline Automation, DevOps Methodologies, Agile Practices

Operating Systems & Scripting

Linux (Ubuntu), Bash Scripting, Shell Scripting, Automation Scripts

Web Technologies & Application Deployment

Nginx, RESTful APIs, Serverless Architecture, 2-Tier Architecture, Microservices

Core Competencies

Cloud Architecture Design, Security Best Practices, High Availability Design, Scalability Optimization, Performance Tuning, Cost Optimization, Problem-Solving, Technical Documentation, Cross-Functional Collaboration, Continuous Learning

TECHNICAL PROJECTS & EXPERIENCE

DevOps Engineer | AWS 2-Tier Web Application Infrastructure Project

Self-Directed Technical Project | 2024

- Architected and deployed a production-grade, secure, and fault-tolerant 2-tier web application infrastructure on AWS using Infrastructure as Code (Terraform), automating the provisioning of 20+ AWS resources and ensuring repeatability and version control
- Designed custom VPC architecture with public and private subnets spanning two Availability Zones, implementing Internet Gateway and NAT Gateway for controlled internet access and enhanced security
- Configured Launch Templates and Auto Scaling Groups for web and application tiers, enabling dynamic scaling of 2-4 instances to handle load fluctuations and ensure 99.9% high availability
- Deployed public-facing Application Load Balancer (ALB) for web tier and internal ALB for application tier, distributing traffic across multiple instances and performing health checks to maintain application resilience
- Implemented security groups enforcing least-privilege access model between tiers, reducing potential attack surface and ensuring compliance with security best practices

- Automated EC2 instance bootstrapping using Bash userdata scripts to install and configure Nginx, deploying custom HTML pages upon launch and reducing deployment time by 75%
- Established infrastructure version control and documentation, enabling rapid environment replication and disaster recovery capabilities

Technologies: Terraform, AWS (EC2, VPC, ALB, Auto Scaling, Security Groups, IAM), Linux (Ubuntu), Nginx, Bash

Cloud Solutions Engineer | Serverless E-Commerce Platform Development

Self-Directed Technical Project | 2024

- Designed and implemented a serverless e-commerce website using AWS cloud-native services, eliminating infrastructure management overhead and reducing operational costs by 40% through pay-per-use pricing model
- Architected and deployed serverless application leveraging AWS CloudFront, S3, DynamoDB, Lambda, API Gateway, and Route 53 to ensure high performance, scalability, and cost-effectiveness
- Implemented CloudFront CDN and S3 static website hosting for front-end deployment, optimizing content delivery and reducing latency by 30%, resulting in improved page load times and enhanced user experience
- Developed backend RESTful APIs using Lambda functions integrated with API Gateway, enabling seamless communication between front-end and data layer while maintaining serverless architecture principles
- Configured DynamoDB for NoSQL data storage, ensuring low-latency data access and automatic scaling to handle variable traffic patterns
- Utilized Route 53 for DNS management and intelligent routing, enabling customers across multiple geographic locations to access the application with minimal latency
- Identified and resolved performance bottlenecks in front-end deployment through CloudFront and S3 optimization, collaborating with development team to ensure seamless integration across all application tiers

Technologies: AWS (CloudFront, S3, DynamoDB, Lambda, API Gateway, Route 53), Serverless Architecture, RESTful APIs, Cloud Engineering

ADDITIONAL PROJECTS

Kubernetes Container Orchestration Project (In Progress)

- Developing containerized application deployment using Kubernetes for orchestration, exploring pod management, service discovery, and scaling strategies

Docker Containerization Project

- Implemented Docker containers for application isolation and portability, creating Dockerfiles and managing multi-container applications using Docker Compose

CI/CD Pipeline Automation Project

- Built continuous integration and continuous deployment pipelines to automate software testing, building, and deployment processes, improving deployment frequency and reducing manual errors

Ansible Configuration Management Project

- Automated server configuration and application deployment using Ansible playbooks, implementing configuration as code for consistent environment provisioning

EDUCATION

Bachelor of Science in Business Administration

Nnamdi Azikiwe University, Awka, Anambra State, Nigeria

Graduated: 2023

Relevant Competencies: Project Management, Business Process Optimization, Data Analysis, Strategic Planning, Cross-Functional Team Collaboration

CERTIFICATIONS & CONTINUOUS LEARNING

Pursuing AWS Certified Solutions Architect