GODFRED OKPOTI

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Summary

DevOps Engineer with over 9 years of experience in AWS, specializing in implementing CI/CD pipelines, infrastructure as code, and cloud infrastructure management. Recently enhanced Splunk monitoring, reducing deployment failures by 20% and optimized AWS and GCP cloud services to improve efficiency by 30%. Committed to supporting engineering teams in transitioning to an owner-operator model, maintaining high availability, and implementing best practices.

Skills

Operating Systems: Ubuntu, CentOS, RedHat Linux, Windows
Container Tools: Docker, Kubernetes
Agile Methodologies: Scrum, Kanban, Lean, XP, SAFe
Project Management Tools: JIRA, Confluence, Trello, Asana, MS Project, Slack
Version Control Tools: Git, Code Commit, Azure Code Repo, Jenkins, Azure DevOps
CI/CD Tools: Azure Pipeline, Azure Web Apps, Azure VM, AWS CodeDeploy, CodePipeline, EC2, Jenkins
Databases: MySQL, MS SQL Server 2008/12, NoSQL (MongoDB, DynamoDB), Aurora, MongoDB, Redis, DocumentDB
Cloud: AWS, GCP
Languages & Scripting: Shell scripting, Python, React, JavaScript, HTML, CSS, JSON, jQuery, Perl, (React/node.js), Go, Typescript, Java, Spring Boot (Expert), Angular (Expert)
Networking/Protocol: TCP/IP, DHCP, DNS, NIS, NFS, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP
Repository Management: Nexus, Docker Registry, ACR, S3
Monitoring Tools/Testing: Prometheus, Grafana, ELK Stack, Selenium, Sonar Cloud, SonarQube, Elasticsearch, Splunk, SumoLogic
Web Servers: Apache Tomcat, IIS, IIS Express, Kestrel, Nginx
Build Tools: Maven, Ant, Gradle
Automation Tools: Ansible, Terraform
Virtualization Technologies: VMware, Windows Hyper-V, VirtualBox, Vagrant
Load Balancers: ALB, ELB
Serverless Technologies: Lambda

Work Experience

Swift Inc, Culpeper **December 2024 - May 2025)**
Lead Platform Engineer/System & App Mgt & Supt Specialist

- Led the full lifecycle management of Kubernetes (EKS) clusters across AWS Commercial and GovCloud environments, handling all aspects of deployment, configuration, upgrades, and resilience planning.
- Leveraged Kyverno to enforce policy-as-code and security standards, significantly reducing misconfigurations and human error.
- Introduced GitOps methodologies with ArgoCD and Helm, enabling consistent, auditable, and automated application rollouts across multiple environments.
- Led the migration of legacy applications from on-premises environments to AWS, achieving a seamless transition with minimal downtime.
- Architected and implemented highly available and secure infrastructure on AWS using Terraform and AWS CDK, provisioning end-to-end cloud environments that supported system uptime.
- Developed modular, reusable infrastructure templates that accelerated environment provisioning from days to under 2 hours, while maintaining compliance with industry standards like CIS Benchmarks and NIST 800-53.
- Designed and implemented end-to-end infrastructure automation using Terraform and Terragrunt, reducing provisioning time.
- Led the migration of legacy applications to Kubernetes clusters, improving scalability and resource utilization.
- Established robust CI/CD pipelines using GitLab CI and ArgoCD, enabling seamless deployments and reducing downtime.
- Participated fully in Agile development practices including sprint planning, retrospectives, backlog grooming, and daily stand-ups. Served as a technical voice in prioritization discussions, helping the team improve story estimation accuracy and increased sprint predictability by 25% across three consecutive quarters.
- Produced and presented clear, concise, and business-aligned executive reports detailing infrastructure performance, security postures, cost optimization efforts, and technical roadmaps. These insights directly supported leadership

decision-making, resulting in faster budget approvals and better alignment between technical teams and business stakeholders.

- Mentored and guided a team of 5 engineers, fostering collaboration and ensuring timely delivery of projects.
- Managed multi-cloud environments (AWS, Azure, GCP) for high availability and cost optimization.
- Configured and maintained GPU-enabled Kubernetes nodes for AI/ML workloads, enhancing model training efficiency.
- Observability: Implemented monitoring and logging solutions using Prometheus, Grafana, and ELK Stack, improving incident response times.
- Designed and implemented Kubernetes (EKS) clusters, facilitating scalable application deployment while adhering to AWS best practices.
- Developed automation scripts in Python and Shell to streamline deployment processes, reducing manual intervention.
- Collaborated with architects and lead engineers to create comprehensive roadmaps for the DevOps implementation lifecycle.
- Conducted thorough code reviews and unit testing, ensuring high-quality deliverables and adherence to development standards.
- Documented system architecture and unit testing procedures, enhancing knowledge transfer and onboarding for new team members.
- Utilized ISTIO for service mesh implementations, improving microservices communication and security policies.
- Drove the adoption of DevSecOps practices across the team, integrating security measures early in the development cycle.
- Implemented CI/CD pipelines using CloudBees, enabling efficient continuous integration and deployment workflows.
- Enhanced system performance and resilience by applying engineering principles to optimize cloud resources.
- Actively participated in on-call rotations, ensuring rapid incident response and resolution for production issues.
- Collaborated with product teams to leverage the DevOps Scoring Framework, improving delivery maturity metrics.
- Administered CloudBees Agents running on EC2 instances, streamlining build processes and resource management.
- Provided training sessions to team members on AWS best practices, increasing team capabilities in cloud technologies.
- Conducted retrospectives on current implementation processes, documenting insights and recommending improvements for future projects.

WellSky Corporation

Platform Engineer **January 2025 - May 2025**

- Directed the deployment of AWS-based infrastructure configurations, ensuring adherence to best practices for healthcare applications.
- Designed and optimized CI/CD pipelines with GitHub Actions to support infrastructure and application deployments for microservices architecture.
- Automated build-test-deploy cycles, achieving a 60% increase in deployment frequency, 90% faster rollback times, and improved release confidence through integrated testing, linting, and policy enforcement.
- Authored and maintained production-grade automation scripts in Python and TypeScript, focusing on infrastructure bootstrapping, EKS cluster operations, and resource cleanup. These scripts reduced manual tasks by 80%, decreased provisioning errors, and empowered development teams to initiate self-service workflows via CI/CD triggers and infrastructure pipelines.
- Managed and scaled AWS services including EC2, VPC, RDS, S3, IAM, and EKS, applying strict access control with IAM roles and policies, VPC flow logs, and encryption strategies. Improved platform security posture, resulting in a 50% reduction in security incident tickets and ensured adherence to least-privilege principles and boundary protection.
- Developed automated deployment scripts using Python and Shell, significantly improving deployment speed and consistency.
- Developed reusable Terraform modules for infrastructure provisioning, reducing manual effort.
- Automated deployment and management of On-Prem servers, streamlining operations and reducing costs.

- Built custom tools in Python and Golang to automate repetitive tasks, saving 20+ hours per week.
- Optimized database performance and implemented backup strategies for MySQL and PostgreSQL.
- Applied Site Reliability Engineering (SRE) practices to improve system reliability and reduce MTTR.
- Integrated monitoring solutions for EKS environments, enabling proactive performance tracking and incident management.
- Led initiatives to automate manual processes, enhancing the efficiency of Development and Operations collaboration.
- Worked closely with cross-functional teams to establish and implement secure coding and DevSecOps practices.
- Evaluated and optimized existing CI/CD pipelines using BitBucket and Sonar, increasing code quality and deployment reliability.
- Conducted comprehensive testing strategies incorporating unit, integration, and security testing into the development lifecycle.
- Facilitated documentation of system architecture and operational runbooks, promoting knowledge sharing within the team.
- Engaged in continuous learning of emerging cloud technologies and best practices, applying insights to improve workflows.
- Managed Linux and Windows administration tasks, ensuring optimal configuration and performance of development environments.
- Championed the use of JIRA and Confluence for project management, enhancing team collaboration and workflow transparency.
- Participated in daily stand-ups and retrospectives, promoting agile practices and adaptability within the team.
- Analyzed risk factors and established mitigation strategies for cloud infrastructure deployments.
- Engaged with stakeholders to define and prioritize requirements for new cloud-native applications.
- Provided mentorship and support to junior engineers, fostering growth and development within the team.

Publix Supermarket (January 2024 - November 2024
Snr DevOps Engineer

- Orchestrated the successful migration of key applications to AWS, resulting in improved scalability and reduced operational costs.
- Integrated DevSecOps practices by embedding compliance and vulnerability scanning into CI/CD, utilizing tools like Kyverno, Trivy, and GitHub Dependabot, ensuring every deployment met security standards before reaching production. Hardened container images and AMIs to meet Level 1 benchmarks, helping the organization achieve 100% pass rate on quarterly compliance audits.
- Mentored and led a team of 5+ junior and mid-level engineers, conducting regular code reviews, architecture walkthroughs, and one-on-one coaching sessions. Fostered a collaborative team environment that led to a 30% improvement in delivery velocity, cleaner codebases, and a stronger DevOps culture across engineering squads.
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- Established a centralized observability and monitoring stack using Prometheus, Grafana, and Kyverno audit policies, enabling proactive performance tuning, rapid incident diagnosis, and a 35% improvement in mean-time-to-detect (MTTD). Integrated alerting with Slack and PagerDuty for 24/7 on-call visibility and faster remediation.
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- Architected and managed EKS-based solutions for deployment of microservices, enhancing application resilience and performance.
- Automated manual operational tasks through scripting, which increased deployment efficiency by 30%.
- Collaborated with architects to develop roadmap strategies for cloud initiatives, aligning with business objectives and technical requirements.
- Conducted audits of CI/CD pipelines to ensure compliance with established security and quality standards.
- Assisted with the administration of AWS services, ensuring optimal resource utilization and cost management.
- Developed comprehensive documentation covering system setups and operational processes to facilitate future reference.
- Utilized ISTIO for traffic management and security between microservices, optimizing service interactions within the architecture.
- Engaged directly with team members to promote the adoption of DevSecOps principles across engineering disciplines.
- Maintained detailed records of code reviews, testing results, and implementation changes, fostering a culture of accountability.
- Implemented automation strategies to streamline inter-team dependencies, improving overall development throughput.
- Actively contributed to design discussions, leveraging extensive knowledge of development and testing best practices.
- Supported cloud-native application development by providing guidance on architecture best practices and resource

allocation.
- Crafted tailored training programs for new hires on AWS tools and processes to enhance onboarding efficiency.
- Analyzed system performance metrics post-deployment to recommend adjustments and optimizations for cloud resource**s.**
- Engineered a responsive, mobile-first web application using AWS CDK React.js and Node.js, integrated with AWS Cognito for authentication, resulting in an increase in mobile user engagement.
- Set up and managed monitoring and logging solutions using Datadog and AWS CloudWatch, providing real-time insights into system health and performance.
- Created and optimized CI/CD pipelines and workflows using, Jenkins pipelines to ensure smooth deployment processes.
- Provided system administration and DevOps support for Linux-based distributed systems, including the configuration and maintenance of servers, networking, and virtualization technologies.
- Created GitOps native multi-tenant cluster configuration repositories with Kubernetes infrastructure and workloads using Kustomize automation scripts.
- Reduced recovery time objective (RTO) by architecting and implementing a serverless disaster recovery solution with DynamoDB Global Tables

CLIENT: Walmart

Snr Cloud/DevOps Engineer May 2022 - Jan 2024

- Designed, configured, and deployed AWS infrastructure using EC2, Route 53, S3, RDS, CloudFormation, and CloudWatch focused on high-availability, fault-tolerance, and auto-scaling.
- Established scalable and reliable infrastructure using GCP Cloud's AutoML, Keras and TensorFlow thus improving ML model accuracy.
- Used Google Kubernetes Services (GKE) to manage containerized applications, reducing maintenance time.
- Implemented Infrastructure as Code (IaC) across cloud environments with ArgoCD, achieving a reduction in environment provisioning times and ensuring 100% compliance with security policies
- Led a digital transformation project that integrated Zero Trust security models, reducing insider threats.
- Automated regular system backups and failover processes, minimizing downtime in the event of a cyber incident and ensuring business continuity.
- Reduced downtime risk by redesigning the system architecture, dividing it into microservices running on Cloud Functions
- Architected and implemented a serverless, multi-region disaster recovery solution using GCP Cloud Functions and Cloud Spanner, reducing recovery time objective (RTO) and achieving availability for critical systems
- Led a cross-functional team of 12 to implement Jenkins pipelines with Maven for 15+ projects, shortening release cycles and enhancing collaboration between developers and operations teams.
- Working on IAC tools with Ansible and Terraform for continuous deployments across multiple cloud services.
- Implementing Ansible Tower for managing complex network deployments and Wrote Ansible Playbooks using Python SSH as Wrapper for Managing Configurations of my servers, Nodes.
- Established Security of rest APIs using industry standard OAuth 2.0, raising security defenses by remarkable
- Configured and secured infrastructure on the AWS Cloud, adhering to best practices for infrastructure as code (
- Developed CI/CD pipelines using Jenkins and integrated with tools including Maven, SonarQube, and Argo CD for effective software deployment.

Client: VODAFONE, UK, Full time **Feb 2017 – Jan 2022**

Role: DevOps Engineer

- Led the transition to microservices architecture using Docker, Terraform and Kubernetes, resulting in a decrease in downtime during deployments.
- Spearheaded the adoption of Infrastructure as Code (IaC) practices, utilizing AWS CloudFormation and Terraform to automate of cloud resource provisioning, cutting deployment time from days to hour
- Mentored junior developers, providing guidance on best practices and helping them improve their Python skills, leading to a reduction in code review iterations.
- Orchestrated the migration of legacy applications to containerized microservices on GKE, reducing infrastructure costs and improving scalability to handle a 5x increase in user traffic.
- Led the migration of on-premise applications to Google Cloud Platform, improving system availability.
- Designed and implemented CI/CD pipelines using Cloud Build and Spinnaker which accelerated deployment cycles.
- Pioneered the use of GCP services for project environments, leading to a cost savings of for the IT budget.
- Collaborated with the DevOps team to automate the deployment process using Python scripts and AWS CodeDeploy, reducing deployment time.
- Implemented Istio service mesh across services, resulting in a improvement in service-to-service communication

security and an increase in traceability of networking issues.
- Architected and implemented a serverless microservices ecosystem using AWS Lambda, API Gateway, and SQL, reducing operational costs and improving scalability for a user base of 5 million+.
- Deployed a real-time data processing pipeline using AWS Kinesis, Apache Kafka, and Elasticsearch, enabling the analysis of 1TB of data per hour and reducing data latency.
- Instrumental in the design of a multi-regional GCP network architecture, optimizing application performance across geographic locations.
- Executed seamless data migrations to Google Cloud Storage, resulting in enhanced data redundancy and a reduction in latency.
- Improved overall system security posture by integrating GCP security services with the enterprise security framework.
- Researched and evaluated new technologies related to AWS Lambda Python using, leading to the adoption of a new monitoring tool that improved system visibility and reduced troubleshooting time.
- Developed and automated CI/CD pipelines using Jenkins, Docker and ArgoCD, reducing software release time.
- Experience in creating alarms and notifications for EC2 instances using Cloud Watch. Implemented Elastic search, Log stash and Kibana for the Sales and Audit application.
- Implemented multi-tier application provisioning in AWS cloud, integrating it with Ansible. Designed and Implement Data Model for UDW Transition from Oracle & SQL Server to Google Cloud Big Query.
- Used Terraform scripts to Automate instances for Manual instances that were launched before. Writing json templates for cloud formation and ruby scripts for chef automation and contributing to our repository on GitHub (sub version control).
- Designed and architected large-scale systems software, accommodating high traffic and data intensive workloads, resulting in an increase in system performance and scalability in AWS.

Client: TULLOW GHANA, GHANA **Oct, 2015 – March 2017**
Role: SRE ENGINEER

- Led a dedicated team of SRE Engineers, collectively focused on enhancing platform reliability
- Led the integration project for cloud storage solutions using NodeJS-based APIs, which led to a decrease in local storage costs annually.
- Championed the integration of advanced SIEM solutions resulting in a quicker incident response time during critical security breaches.
- Implemented robust firewall configurations that prevented over 1,500 potential intrusion attempts
- Devised a custom SIEM dashboard that improved threat monitoring efficiency by consolidating incident data.
- Initiated a secure VPN rollout for remote users, bolstering the remote work infrastructure by ensuring uptime
- Managed the development and deployment of a Kubernetes-based service mesh solution, resulting in a reduction in network latency and a 20% increase in application performance.
- Designed and implemented a Kubernetes-based infrastructure as code solution, reducing infrastructure deployment time and increasing infrastructure scalability.
- Set up Kubernetes clusters for effective orchestration of Dockerized microservices, leading to system uptime
- Engineered a real-time monitoring Java tool that improved system uptime, ensuring higher availability for end-users.
- Working knowledge of information security industry frameworks (i.e. NIST Cybersecurity Framework, FFIEC)
- Orchestrated a client service initiative that improved customer satisfaction ratings by 35% through personalized engagement strategies and proactive issue resolution
- Streamlined ticketing process using Microsoft Dynamics 365, reducing average customer issue resolution time and boosting customer satisfaction ratings.
- Developed and maintained serverless applications and monitoring using ELK, resulting in a reduction in infrastructure costs and an improvement in application performance
- Contributed to the development of a Java-based API for social media integration, leading to a user base increase by 1 million in 6 months.
- Wrote Lambda functions in python for AWS Lambda and invoked python scripts for data transformations and analytics on large data sets in EMR clusters and AWS Kinesis data streams and configuration management tools such as Kafka, Redis, RabbitMQ.
- Migrated applications from a traditional data center to AWS cloud using AWS services like EC2, ELB, EBS, Chef, Sparkle Formation, GitHub.
- Troubleshooting any part of the lifecycle services within the AWS including log files, message queues, database, computer hardware, and network connectivity.
- Troubleshoot, resolved, and recommended improvement for systems networks and security problems at an advanced level across multiple/converged technology solutions services and platforms.

Education

Koforidua Technical University

- University of Education, Bachelor of science in Mathematics and Information Technology
- Koforidua Technical University, Diploma in Statistics and Information Technology

Certification

- Microsoft: Certified Azure developer - Associate
- AWS Advanced Networking Specialty
  Google Professional Cloud DevOps Engineer
  Google Professional Cloud Architect
- AWS Certified DevOps Engineer Professional
- AWS Certified Solution Architect- Associate
- AWS Certified Solution Architect- Professional
- HashiCorp Certified: Terraform Associate (003)
- Certified Kubernetes Administrator (CKA)