

Ozi Uzoma

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SUMMARY

Cloud DevOps engineer specializing in streamlining development and operations processes to enhance efficiency, reliability, and scalability within organizations. Leveraging a blend of technical expertise in infrastructure as code, monitoring and observability, container technologies, continuous integration/deployment and cloud computing to ensure smooth transitions from development to production environments.

SKILLS

- Cloud Platforms: **AWS, Azure, Oracle Cloud**
- Containers, Microservices, and Orchestration: **Docker, Kubernetes, Openshift, Helm**
- Secrets: **Azure KeyVault**
- Continuous integration/deployment: **ArgoCD, CircleCI**
- Operating Systems: **Linux**
- Infrastructure-as-Code: **Terraform, AWS CloudFormation**
- Observability and Monitoring: **Prometheus, Grafana, Datadog**
- Configuration Management: **Ansible**
- Programming Languages: **Bash**
- Databases: **PostgreSQL**
- Version Control System: **Git**
- Others: **Jira, Confluence, Kustomize**
- Languages: **English (Native), French (B2)**

PROFESSIONAL EXPERIENCE

Deployment Engineer, AIFI Inc., Santa Clara, California

July 2022 – Date

- Improve and create documentation to streamline and identify gaps in the end-to-end deployment processes.
- Proactive troubleshooting and testing of critical Kubernetes resources to ensure uninterrupted operations.
- Perform peer code reviews and mentor junior engineers.
- Deploy ML-based autonomous retail microservices across on-prem and cloud Kubernetes clusters using Kustomize, GitLabCI and ArgoCD.
- Implement Azure KeyVault controller and injector and its custom resources to pull and inject secrets from Azure KeyVault.
- Design network policies to allow/deny ingress and egress traffic to/from pods on Azure Kubernetes Services.

Cloud Engineer, Azubi Africa, Accra, Ghana

Sep 2021 – Oct 2022

- Architected highly available infrastructure using autoscaling in different AZs to improve fault tolerance and service delivery by 20%.
- Hosted a static website on S3 and CloudFront leveraging edge locations to reduce latency of content delivery to users.
- Dockerized an application and pushed the image to Elastic Container Registry for deployment on Elastic Container Service.
- Established and initiated the deployment of an RDS instance and read replicas to reduce load on the master endpoint for read only operations.

Analytics Intern, Upkey/Aimchess

Jan 2021 – Sep 2021

- Populated an excel CSV file with metrics gathered from social media for further analysis in R.
- Performed a regression analysis in R to understand trends on social media posts growing customer engagement by 30%.

IT/Admin Assistant, Ministry of Roads and Highways

Nov 2015 – Nov 2016

- Upgraded windows operating systems to improve machine performance efficiency by 30%.
- Reduced network, internet and hardware complaints among 5+ departments.

PROJECTS

Mobalysis, Online Analytics Application: Collaborated with a team of 3 to provision EC2 instances in 2 AZs using Terraform. Automated the deployment of the application (React front end, Django backend) hosted on Nginx server and PostgreSQL database and its dependencies onto the targets using Ansible.

Aston Villa HolteBar: Deployed retail autonomous solutions with over 80+ microservices with Adyen payment and Shopify integrations using ArgoCD, Kustomize, GitlabCI and Kubernetes ([LinkedIn post](#)).

Configuration of Continuous Delivery Pipeline using CircleCI, AWS CloudFormation and Ansible: Deployed a JavaScript application to AWS Cloud with CircleCI(CI/CD) pipeline in a blue/green deployment strategy. CloudFormation used to provision infrastructure and Ansible for configuration management within the pipeline.

Operationalizing a Microservice API using Docker and Kubernetes: A pre-trained, sklearn model to predict housing prices in Boston according to several features, such as average rooms in a home and data about highway access, teacher-to-pupil ratios, etc. The application was containerized and pushed to a private docker registry to be deployed to EKS with appropriate regcred secrets.

EDUCATION

BSc Computer Engineering, University of Ghana

Completed June 2014

CERTIFICATIONS

AWS Solutions Architect

Azure Fundamentals

Oracle Cloud Architect Associate

AWS Cloud Practitioner