Michael Appiah Dankwah

DevOps Engineer

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SUMMARY

Versatile Engineer with experience spanning full-stack development and DevOps engineering. Proficient in coding, debugging, and project management, consistently delivering elegant and scalable solutions. Skilled in collaborating within Agile frameworks to accomplish project goals effectively. Excels in both individual and team-oriented environments, leveraging a comprehensive understanding of software development to drive success across the entire development lifecycle

EXPERIENCE

DevOps Trainee   Nov '23 — Present
Develeap Accra

- Writing and integrating Jenkins Pipelines and jobs into GitLab projects, streamlining continuous integration and deployment processes.
  Setting up AWS infrastructure and provisioning resources such as instances, CloudWatch, SNS, and Application Load Balancers using Terraform as Infrastructure as Code (IaC), optimizing resource management and cost-efficiency.
  Leveraging Kubernetes (GKE) for container orchestration, deploying and managing applications efficiently in a cloud-native environment.
  Setting-up production ready AWS managed Kubernetes cluster using terraform.
  Writing bash and Python scripts to automate everyday tasks, enhancing productivity and reducing manual effort
  Managing Docker containers with Dockerfiles and compose scripts, facilitating containerized application deployment and maintenance.

Lead Maintainer   Sep '23 — Jan '24
Secured User String Database   Accra, Ghana

- Created a Python-based solution for secure and efficient user identity storage Utilizes advanced layers of hashing and encryption techniques
  Designed and implemented the architecture for SusDB, combining Python's DBM technology for file storage and Redis for resource management, resulting in a secure and efficient database system.
  Developed a user-friendly Command Line Interface for SusDB, enabling users to store, retrieve, display, verify and perform account recovery with ease

Full Stack Developer   Apr '23 — Oct '23
Xacent Global Technologies   Ontario, Canada (Remote)

- Collaborated with a team to develop a full-stack web application built on the concept of multi-tenancy.
  Implemented Responsive Designs on frontend applications that allowed the application to be used on various devices with the same user experience Continuous improvement and research on data privacy, compliance and regulation.
  Designed and built newbusiness applications, including CRM software Maintained software products including programs, webpages, and databases

SKILLS

Programming Languages   JavaScript, Python

Database Management   PostgreSQL, MySQL, MongoDB

DevOps Tools   Docker, Jenkins, Terraform

Cloud Services   AWS, GCP

Container Orchestration   Kubernetes

PROJECTS

Secured UserString Database Link   Sep '23 — Jan '24

- Created a Python based solution for secure and efficient user data management.
  Utilizes advanced layers of hashing and encryption techniques. Designed and implemented the architecture for SusDB, combining Python's DBM technology for file storage and Redis for resource management, resulting in a secure and efficient database system.
   Developed a user-friendly Command Line Interface for SusDB, enabling users to store, retrieve, display, verify and perform account recovery with ease.

DevOps Project   Feb '24 — Mar '24

- Continuous Integration with Jenkins: Orchestrated Jenkins pipelines on an EC2 instance to automate the build, test, and deployment phases, ensuring efficient code delivery.
  Infrastructure as Code (IaC) with Terraform: Provisioned an EKS (Amazon Elastic Kubernetes Service) cluster on AWS, incorporating EBS (Elastic Block Store) volumes, robust security measures, and network configurations.
  Logging and Monitoring Stack: Deployed a centralized logging solution using the EFK (Elasticsearch, Fluentd, Kibana) stack, enabling real-time log analysis and troubleshooting. GitOps Principles Adoption: Implemented GitOps using argocd.

SimplyNP [Link](#)   Apr '23 — Jan '24

- Developed a secure cloud-based platform for small to medium-sized Non-Profit organizations, using Django on the backend and NextJs on the frontend. Implemented Restful APIs for seamless integration with external applications

EDUCATION

DevOps Engineering, Develeap Education   Nov '23 — Feb '24
                                                                                                             Accra

Software Engineering, Alx School   Nov '22 — Jan '24
                                                                                                      Accra, Ghana

Quantity Surveying and Construction Economics, Kwame Nkrumah University of Science and   Sep '16 — Aug '20
Technology   Kumasi, Ghana