MELONG TCHOUPOU

Maryland, MD |LinkedIn | GitHub

Objective

To enhance my professional skills in a dynamic and fast-paced environment. Confident and poised in interactions with individuals at all levels. Focused and dedicated; I have a good eye for detail and put in my best effort in time management and prioritization.

Skills and Abilities

Cloud Platforms: Amazon Web Services (AWS), Azure.
DevOps Tools: Terraform, AWS CloudFormation, Ansible, Jenkins, Git, Docker, Kubernetes, Devsecops
Scripting Languages: Python, Bash, ETL tools, AWS Glue
CI/CD: Building and maintaining CI/CD pipelines, integrating testing frameworks
Infrastructure as
Code (IaC): Creating infrastructure using code, infrastructure automation AND Monitoring.
Logging: AWS CloudWatch, ELK Stack (Elasticsearch, Logstash, Kibana)
Networking: VPC, Route 53, Load Balancers, Security Groups, NACLs
Databases: Amazon RDS, DynamoDB
Security: IAM, Security Groups, Encryption at Rest and in Transit

Work Experience

Responsibility: TEXTNOW   May 2020 – JAN 2024

- Results-driven AWS Cloud/DevOps professional with over 7+ years of experience in designing, implementing, and managing scalable and highly available cloud infrastructure.
- Managed cloud migration projects, ensuring the smooth transition of numerous applications to the AWS cloud, resulting in improved scalability, cost efficiency, and performance.
- Proficient in developing and implementing ETL processes using a variety of ETL tools.
- Proficient in integrating security practices seamlessly into the DevOps workflow, ensuring that security measures are an integral part of the software development and deployment process.
- Skilled in automating security checks and compliance processes, enabling continuous security testing and vulnerability assessment throughout the software development lifecycle.
- Implemented automation for CI/CD pipelines, significantly reducing deployment time by 40% and enabling faster and more efficient software releases.
- Demonstrated expertise in Apache Kafka, an open-source distributed event streaming platform, for building real-time data pipelines, log aggregation, and event-driven applications.
- Skilled in leveraging Kafka to enable real-time data processing, streaming analytics, and event-driven architectures for enhanced data-driven decision-making and application responsiveness.
- Proficient in using AWS CloudFormation and Terraform for infrastructure as code (IaC), ensuring consistent and reproducible deployments.
- Utilized AWS monitoring tools such as CloudWatch and ELK stack to monitor system performance, troubleshoot issues, and improve system reliability.
- Experience with AWS Glue, a serverless ETL service that makes it easy to extract, transform, and load data into data lakes, data warehouses, and other AWS services.
- Experienced DevOps Engineer with a strong understanding of Datadog and its capabilities.
- Stayed updated with the latest AWS services and industry best practices to drive continuous improvement and deliver high-quality solutions.

Work Experience

Responsibility: DOORDASH   March 2016 – May 2019

- Designed and Maintained AWS Infrastructure: Architected and managed AWS infrastructure for a large web application, ensuring robustness and high availability.
- Successfully designed, configured, and managed Kafka clusters to handle high-throughput data streams, ensuring data reliability and fault tolerance.
- Experience developing and implementing ETL processes using AWS Glue, a serverless ETL service that makes it easy to extract, transform, and load data into data lakes, data warehouses, and other AWS services.
- Successfully integrated security practices into the DevOps pipeline, ensuring that security measures are an integral part of the software development and delivery process.
- Implemented automated security testing and vulnerability assessments throughout the software development lifecycle, enabling early detection and remediation of security issues.
- Designed and deployed Custom Resource Definitions (CRDs) to extend Kubernetes API and enhance cluster functionality.
- Collaborated with DevOps teams to develop Helm charts for application deployments, simplifying the process and ensuring consistency.
- Integrated network policies to enforce communication rules within the Kubernetes cluster.
- Managed Rancher setup, deployed essential components, and ensured high availability of Kubernetes clusters.
- Implemented monitoring solutions using CloudWatch and Prometheus, enabling proactive incident response and system health maintenance.
- Designed and implemented AWS solutions for various customers, meeting their unique needs and requirements.
- Utilized AWS CloudWatch for resource monitoring and management, enabling faster troubleshooting and debugging with comprehensive application logs.

Education

- Presbyterian University Of Cameroon – BSc in Computer Networking & Technical Support Kingston, ON   May 2010 – June 2013
  - GPA – 3.5
  - Social Manor Award for 2010-13

Projects

Certifications

- AWS Certified Solution Architect Associate
- AWS Certified Cloud Practitioner
- Responsive Web Design

- Amazon Web Service
- FreeCodeCamp
- FreeCodeCamp