JOHN MUKUNA NGANGA

Driving Innovation at the Intersection of Data

Full-stack developer with hands-on experience in Angular and TypeScript for frontend development, and Python for backend solutions. Specialized in ERPNext customization using the Frappe Framework. Proficient in AWS cloud services and GraphQL API implementation. Strong background in developing high-performance applications using Golang. Demonstrated ability to deliver scalable enterprise solutions through effective integration of modern technologies.

Contact

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LinkedIn
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Education

2020 - Date
Jommo Kenyatta University of Agriculture and Technology
Telecommunication and Information Engineering

Cisco Networking Academy-2020;
Networking and Cloud Basics

PlanetAI
Machine learning and deep learning

Expertise

Front end
- Angular
- JavaScript
- Ionic framework
- Typescript
- Html & css

- Python
- Weka
- AWS Cloud Computing
- Apache Kafka Data Streaming
- Docker Containerization
- GraphQL, SQL
- InfluxDB
- Grafana
- Data Engineering and ETL
- DevOps and Cloud Infrastructure

Experience

April 2024 - August 2024

Emobilis Technolgy Institute

AWS Cloud Practitioner

Implementing and managing scalable solutions for diverse business requirements. I designed and deployed cloud architectures focusing on cost optimization and security best practices. My responsibilities included managing multi-tier applications, implementing serverless architectures, and automating deployment processes using Infrastructure as Code (IaC). Throughout my tenure, I played a key role in cloud migration projects, ensuring seamless transitions while maintaining system performance and security compliance.

April 2023-December 2023

Furaha Build Ventures

AWS IoT Data Engineer

Designed and deployed an IoT data pipeline for the Kawi project, leveraging AWS services. Implemented real-time data ingestion from IoT sensors using AWS IoT Core, with data storage in AWS Timestream time-series database. Developed a GraphQL API using AWS AppSync to enable flexible querying of IoT data. Integrated the GraphQL API with an Angular front-end application for rich data visualization and analysis.

May-August 2022

GearBox Kenya LTD,

Machine Learning Intern

Developed and maintained various Python-based applications, including web applications and data analysis tools.
I have been able to work with a team at Gearbox Kenya in the development of facial recognition and detection systems that could be used in door automation.

Projects

Emission Insight- Github Link

Architected and implemented an IoT data pipeline using AWS IoT Core, Timestream, AppSync (GraphQL API), and Angular for real-time data ingestion, storage, querying, and visualization.

Tableau Data Analysis Projects
Tableau Cloud Link

Data Science Using Python Project- Github Link