Boniface Mutea

muteaboniface@gmail.com

Linkedin

medium.com/@dev.mutea

+254723840366

muteaboniface.com

Summary

I am a systems and backend engineer with growing experience across reliability engineering, data operations, and software delivery. I've developed microservices using Java and the Spring Framework, built and secured RESTful APIs for inter-service communication, and containerized services to support scalable deployments. On the operational side, I maintain system availability through proactive monitoring and incident resolution, ensuring adherence to SLAs. I work with both SQL and NoSQL databases to support data modeling, querying, and optimization efforts, and I manage ETL pipelines for preparing data for analytics. I also contribute to platform health through performance tuning, observability, and governance practices. In collaborative environments, I've led client discovery sessions to identify/gather requirements and propose tailored solutions. While I am continuously developing my expertise, I bring initiative, adaptability, and a strong commitment to learning and growing within complex technical ecosystems.

Memberships and Affiliations

Engineers Body of Kenya (EBK)
Institution of Engineers of Kenya (IEK)
IEEE

Professional Experience

2020/2021 – Ongata Rongai, Kenya

ISP TECHNICIAN

Cortech Systems

- Configured and maintained MikroTik routers and antennas to ensure reliable internet connectivity for clients.
- Performed fiber optic cable splicing and termination to extend and repair network infrastructure.
- Handled customer inquiries, logged issues, and provided technical support to resolve. connectivity problems efficiently.
- Worked at heights to install and align antennas and wireless equipment on rooftops and towers.
- Used tools and hands-on techniques to diagnose and fix last-mile connectivity issues for home and business users.

2022/2023 – Nairobi, Kenya

Software Technical Information Intern

Meliora

- Developed microservices in Java and Spring Framework
- Worked on RESTful APIs for inter-service communication.
- I secured RESTFUL APIs for authorized endpoint access
- Containerized services for easier deployment and scaling
- Led discovery sessions with clients to identify pain points, collect requirements and propose backend solutions.

2023/Present – Nairobi, Kenya

Software Engineer
Huawei
- *System reliability and monitoring*
  I ensure system availability, performance, efficiency, and capacity planning through proactive monitoring and end-to-end observability.
- *Incident and problem management* I manage incidents within SLAs, ensuring effective resolution and minimal downtime.
- I manage and interact with both *SQL and NoSQL databases* to design, query, and optimize data storage solutions.
- I occasionally *automate repetitive tasks*, improving efficiency in daily operations.
- Implemented *data ingestion pipelines* to integrate data from various sources, including databases, data warehouses, APIs, and streaming platforms.
- I manage ETL processes to pre-process and clean raw data for analysis.
- Optimization of data processing pipelines for scalability, performance, and efficiency.
- *Monitoring and maintenance:* I perform pro-active platform performance, data quality, and system health monitoring to resolve issues, minimize downtime and ensure uninterrupted data analytics operations.

Education

Sept 2017– Dec 2022
Nairobi, Kenya

Bachelor of Science in Electrical and Telecommunications Engineering
Multimedia University of Kenya

Skills

Web Technologies
- Basic HTML and CSS.
- Angular.
- Web server management (Apache, Nginx)

System Administration
- Linux server management
- Docker
- Kubernetes

Programming & Development
- Java, Spring Framework
- Python
- JavaScript

Cloud & Virtualization
- Azure
- Huawei Cloud

Project Management
- Agile (Scrum, Kanban)
- Jira

Database Management
- MySQL
- PostgreSQL
- MongoDB
- Redis
- HBase, Hive, Carbon, ClickHouse

DevOps & Automation
- Docker,
- K8s
- Git

Soft Skills
- Collaboration & Teamwork
- Empathy
- Leadership & Mentorship
- Adaptability & Human-Centered Design
- Pro-activity

Huawei Based
- Huawei Convergent Billing System (CBS)
- Huawei SmartCare
- Cloud Core Network

Certificates

- LFS101: Introduction to Linux
- HCIA BigData
- HCIA 5G
- Google IT Support Professional Certificate
- Foundations of Project management
- Afralti IBM's Skill Build
- Ericsson Educate 2021

Projects

1. **BakeConnect** - A product built while working with **Meliora.** This product allows home bakers to have a 360 view of their business while prioritizing customer satisfaction.

2. **SMSC**
An internally managed SMSC by **Meliora**. Understanding **core network call flow** was integral to this project's execution. This project made me appreciate the essence of thinking from the first principles while developing software solutions.
Understanding and appreciating the problem is at the art of Software Engineering, the solution is but the trivial part.

3. **Vehicular Coordination in Lane Change Prediction for Collision Avoidance**
I contributed to my final year project by developing a proof-of-concept driver assistance tool that leveraged the HighD dataset, which simulates real-time driving conditions. I applied RNN-based machine learning techniques to model and predict traffic behavior, supporting proactive decision-making in dynamic environments.

4. **Machine Learning Projects** (Click the modal at **See Boniface's top challenges)**
   - DSEA - Financial Inclusion in Africa by Data Science East Africa
   - Vehicle Insurance Claim Hackathon by Multimedia University of Kenya

References

To be provided upon request