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# Fredrick Waihenya

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## SKILLS

Python, Django, Flask, FastAPI, LLM, LangChain, Docker, Kubernetes, AWS, GCP, DO, MySQL, PSQl and Dynamo db, Restful API, GraphQL, WebSockets, Celery, Redis

## EXPERIENCE

### **Hasibu Systems, Nairobi, KE - Backend Engineer**

JULY 2023 - PRESENT

- Pioneered the design and development of the company's proprietary software application's backend infrastructure, optimizing services for 300+ businesses.
- Implemented Apache kafka for asynchronous task execution, reducing processing bottlenecks and improving overall system responsiveness by 20%.
- Orchestrated the deployment of a Redis caching layer, leading to a 30% reduction in database query times and enhancing system scalability.
- Spearheaded the adoption of microservices architecture, resulting in a modular and scalable system design, improving development speed by 15%.

### **Clickbanx Limited, Nairobi, KE - CTO/Backend Engineer**

MARCH 2023 - PRESENT

- Orchestrated the seamless integration with multiple payment gateways, including Stripe and local methods like M-Pesa, enhancing transaction reliability and reducing processing times by 25%.
- Implemented Celery for background job processing, optimizing resource utilization and improving system performance during peak loads.
- Established and enforced rigorous security protocols, safeguarding user data and leading to a 40% decrease in security incidents.
- Championed a cross-functional training program, improving team members' proficiency in new technologies and resulting in a 20% boost in overall team productivity.

## **Ohospital, Delaware, USA** — *Software Developer/Devops*

JUN 2023 – PRESENT

- Engineered microservices, enhancing video call functionality and LLMs, leading to a 25% improvement in user engagement.
- Orchestrated Docker and Kubernetes deployment, resulting in a 30% increase in scalability and a 20% reduction in resource overhead.
- Maintained AWS infrastructure, achieving 99.99% availability and ensuring compliance with security standards.
- Spearheaded CI/CD pipeline implementation, reducing deployment times by 40% and accelerating feature delivery.
- Implemented monitoring solutions, reducing system downtime by 15% and enhancing overall application reliability.

## **Monzo, London, UK** — *Software Engineer Intern*

APRIL 2022 – SEPTEMBER 2022

- Engineered a real-time transaction monitoring system, reducing fraud incidents by 15% and enhancing the overall security of user accounts.
- Spearheaded the development of an intuitive user interface for the mobile banking app, contributing to a 25% increase in user engagement.
- Collaborated in the design and implementation of an automated testing framework, leveraging microservices architecture for better scalability and maintainability.

## **Tirotech Solutions, Nairobi, KE** — *Python Developer*

APRIL 2021 – MARCH 2022

- Led the development of a data-driven recommendation engine, resulting in a 20% increase in user engagement and a 15% boost in revenue from personalized product recommendations.
- Spearheaded the migration of legacy systems to microservices architecture, reducing system downtime by 25% and improving overall system scalability.
- Implemented Celery for distributed task processing, improving system efficiency and enabling seamless background job execution.
- Introduced Redis for caching frequently accessed data, reducing database load and improving overall application performance.
- Utilized LangChain for machine learning applications, enhancing user personalization features and achieving a 20% improvement in recommendation accuracy.

## **EDUCATION**

### **Murang'a University, Kenya** — *Bsc. Software Engineering*