

Stephen Kioni Mwangi

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WORK EXPERIENCE

Savannah Informatics Limited Software Engineer

June 2022 - Present
Nairobi, Kenya

- Led the design and development of the backend of an Electronic Medical Records and Patient Engagement system (*Python, Django, Django Rest Framework, Kubernetes, GCP, Docker, RabbitMQ, Redis, Go, GraphQL*)
- Implemented and designed the company's SMS and USSD API gateway and integrated it with a major Kenyan telecommunications provider, reducing comms costs by $\approx 40\%$ (*Python, Django, Django Rest Framework, GCP, RabbitMQ, Redis, Swagger*)
- Participated in re-platforming existing backend infrastructure from Google Cloud Run to use Google Kubernetes Engine which reduced the company's infrastructure cost by $\approx 55\%$
- Optimized existing APIs through application-level caching and query optimization which reduced p95 latency by $\approx 80\%$ ([Talk given on Django performance](#))
- Setup monitoring to collect metrics and logs using Telegraf, InfluxDB, and Grafana for analysis
- Participated in client engagement and UX discovery
- Guided and coached new hires and interns

Savannah Informatics Limited Software Engineer Intern

June 2021 - May 2022
Nairobi, Kenya

- Maintained and developed the Slade360 Electronic Data Interchange system (*Python, Django, DRF*)
- Provided Level 2 and Level 3 technical support

EDUCATION

University of Nairobi BSc. Computer Science

September 2018 - September 2022
First Class Honours

Relevant coursework: Software Engineering, Distributed Systems, Data Structures and Algorithms, Design Thinking, Systems Analysis and Design, Artificial Intelligence, Machine Learning, Compiler Construction

OPEN SOURCE PROJECTS

Obsidian Spaced Repetition ([link](#))

April 2021 - Present

Spaced Repetition plugin written in TypeScript for the note-taking tool [Obsidian](#). It has been downloaded over 300,000 times and translated into 10+ languages by a global community of users.

Impulse ([link](#))

December 2022 - Present

Impulse is a distributed key-value store written in Go.

Elixir ([link](#))

December 2021 - May 2022

Elixir is a distributed electronic health records system written in Python/Django and JavaScript/Svelte.

SKILLS

Programming: Python (Django, DRF, Celery), Go, GraphQL, SQL, TypeScript, JavaScript, HTML/CSS, Rust

Infrastructure: Kubernetes, Google Cloud Platform, Docker, PostgreSQL, Redis, RabbitMQ

Observability: Grafana, Telegraf, InfluxDB

CI/CD: Gitlab CI/CD, GitHub Workflows, Helm, Ansible