

# DAVID MWANGI KARIUKI

SOFTWARE ENGINEER

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## EXPERIENCE

### SAVANNAH INFORMATICS LTD, NAIROBI – SENIOR SOFTWARE ENGINEER

MAR 2020 – JUL 2022

- Delivered developer tools to automate complex and mundane tasks increasing developer productivity by 50%
- Contributed to developing a high throughput distributed messaging system increasing near-real-time user experience by 40%
- Collaboratively designed and delivered REST and GraphQL APIs developed in Golang
- Developed GRPC-powered inter-service communication framework increasing performance of backend microservices by 30%
- Created and updated documentation of backend microservices in addition to maintaining an 80% coverage on automated tests across all services and sharable libraries
- Created templates and sharable Flutter libraries that power various mobile applications' core logic infrastructure, achieving an 80% reduction in bootstrapping time of new projects
- Executed the design and implementation of CI/CD for backend services on Kubernetes and Serverless (Cloud run); gaining a 70% increase in production delivery of features to customers
- Orchestrated observability and error reporting of the backend fleet using tools such as Jaeger and Sentry; increasing visibility into the internal state of the fleet by 60%

- Introduced feature flagging and A/B testing infrastructure, streamlining the measurement and analysis of feature adoption by 40%
- Worked with data engineers to implement data analysis pipelines from multiple sources and visualize on Datastudio to provide insight into business decisions
- Managed a 9-member cross-functional (product, engineering, sales, support) team and coordinated with business partners toward the successful launch of a health insurance platform
- Coached and mentored a growing team of software engineers; provided clear and constructive feedback and created opportunities for learning and growth; reduced team churn by 70%
- Conducted workload assessments and devised operational processes that led to an increase in team productivity
- Communicated with stakeholders to collect requirements, and describe product features, technical designs and product strategy, gaining an alignment of engineering effort and expected outcome; reducing the risk of rework by 70%
- Evaluated and improved existing solutions by adopting new and alternate technologies achieving a 60% increase in engineering throughput
- Influenced adoption of clean software architecture and Domain-driven design on both the frontend and backend; minimizing time and resources required to introduce new features by 40%

## **SAVANNAH INFORMATICS LTD, NAIROBI – SOFTWARE ENGINEER**

**NOV 2017 – MAR 2020**

- Participated in the countrywide roll-out of the core product to healthcare providers, increasing the customer base by over 60%
- Supported customer value delivery and onboarding, increasing the adoption and usage of our flagship product by 30% every year
- Participated in on-call rotation outside business hours to address client problems increasing our NPS score by 10% every quarter

- Owned, refined, and tuned integrations between in-house applications with third-party applications achieving efficiency along the value chain
- Collaborated in the development and delivery of client-requested features; using Ansible as the deployment tool
- Advocated and led the adoption of Golang by developing high-performance CLI and CI/CD tools

## **BLACKSPACE KENYA, NAKURU – LEAD DEVELOPER**

**DEC 2015 – SEP 2017**

- Built a platform that allowed farmers to invest in Agricultural research leading to a 10% increase in research products sales

## **COELIB INNOVATION CENTER, EGERTON UNIVERSITY, INTERN**

**MAY 2015 – DEC 2015**

- Migrated research data from a locally hosted server to the cloud

# **EDUCATION**

## **EGERTON UNIVERSITY**

**2011 – Voluntary-choose to pursue self-education in software engineering**

Bachelor of Arts in Philosophy and Sociology

# **SKILLS**

## **SOFTWARE DEVELOPMENT**

Golang, Python, Rust, Web Technologies (HTML, CSS, JavaScript, Typescript), ReactJs, Flutter, FastAPI, UNIX, Docker, Redis, Kubernetes (Practical), Cloud computing (GCP), PostgreSQL, BigQuery, REST, GRPC, GraphQL, CI/CD(Gitlab,Github,CircleCI),Ansible

## **SOFT SKILLS**

Leadership, Teamwork, Human-centred design thinking, Critical thinking, Decision making, Analytic thinking, Willingness to learn, Creativity, Dependability, Emphathy

## **INTERESTS**

Machine learning, Behavioral psychology, Wonders of space, African history