

Michael Gichia

Senior Software Engineer

🌐 Nairobi, Kenya

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SUMMARY Over 7 years of expertise in designing and building high-performing applications prioritizing usability, seamless user experiences, and maintainable architectures. Passionate about refining product workflows, enhancing user journeys, and delivering solutions that drive measurable impact.

Employment History

Oct 2022 - Oct 2024 **Senior Software Engineer, Nexleaf Analytics** Los Angeles

- **Developed a real-time vaccine monitoring solution:** Built a mobile application to monitor vaccines during transit, enabling 90% of vaccine distribution in pilot regions of Tanzania to be tracked within the first three months.
- **Integrated Berlinger temperature loggers:** Led the integration of third-party temperature loggers with the internal system, delivering cold chain equipment performance analytics to enhance vaccine monitoring and maintenance processes.
- **Modernized front-end architecture:** Migrated a monolithic front-end to modular Angular pages integrated with RESTful back-end services, significantly improving the performance and scalability of the data management system.

Dec 2019 - Oct 2022 **Senior Software Engineer, ProdPerfect** San Francisco

- **Boosted QA productivity by 500%:** Built a testing solution that automated TestCafe suites, added debugging videos, and eliminated self-reporting, ensuring precise test coverage and faster results.
- **Optimized notification systems:** Reduced turnaround time from 72 to 24 hours by building efficient AWS-powered notification services using SNS, SQS, Lambda, and Terraform.
- **Empowered CI/CD workflows:** Created a custom workflow that provided insights into failed builds, enabling customers to resolve errors pre-release and improve deployment confidence.
- **Scaled development processes:** Designed APIs, reusable components, and customer-driven features while aligning development with user needs to accelerate application scalability.

Feb 2019 - Dec 2019 **Senior Frontend Engineer, Twiga Foods** Nairobi

- **Created a fin-tech platform, Sokoloan:** Built a system that centralized enterprise data, making financial operations faster, more accessible, and easier to manage.
- **Built a mission control dashboard:** Designed a tool used daily by thousands to track, analyze, and manage key operational data.
- **Boosted development pace:** Optimized internal tools and processes, reducing software delivery times for quicker change implementation.
- **Spearheaded UI component development:** Led the design and development of user interface components for the company's flagship software product, resulting in a 30% increase in user engagement.

Sep 2017 - Jun 2019

Lead Frontend Engineer, Mookh

Nairobi

- **Led UX-focused development:** Developed a mobile app and three web applications, ensuring scalability.
- **Streamlined operations:** Developed a system improving event, ticketing, and digital content management.
- **Enhanced user experience:** Reduced checkout time by 80%, cutting it from over 5 minutes to under 1 minute with a re-imagined UX.
- **Boosted mobile user engagement:** Created exceptional mobile-first solutions for 70% of device users.

Jul 2017 - Sep 2017

Consultancy, Upwork

Remote

- **Developed a digital learning tool:** Contributed to an Agile team at Crowdbotics, remotely developing a tool for undergrad business students to manage and showcase projects.
- **Created an affiliate management platform:** Built and sustained an efficient affiliate management platform for a seamless workflow.
- **Developed an interactive math game:** Created a real-time scoring math game for StrongDev to enhance user engagement in learning.

SKILLS

Technical | Product | Frontend | Backend | Testing

TECHNICAL

Architecture | Design Patterns | Scaling | Testing | Operational Metrics

PRODUCT

Rapid Prototyping | User Validation | Documentation | A/B Testing

FRONTEND

React.js | React-native | Angular | Ionic | Next.js | TypeScript | JavaScript | HTML | CSS

BACKEND

Node.js | Python | GraphQL | Express.js | PostgreSQL | Prisma | MongoDB | AWS SNS, SQS, Lambda

TESTING

TestCafe | Jest | Testing Library