Musumba Gerald Michael
Full Stack Software Engineer

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Profile

I'm a seasoned Software Engineer with over five years of experience in software development and architecture. I specialize in complex problem-solving and scalable solutions. My passion for continual learning keeps me at the cutting edge of technology, and I thrive in diverse, collaborative teams. I've achieved milestones in designing enduring software for healthcare, scientific research, FinTech, and SaaS solutions. My focus includes enhancing security, accessibility, localization, and performance in React and Django projects. I excel in seamlessly collaborating with global, cross-functional teams and am dedicated to excellence in innovative software projects.

Professional Experience

Software Engineer

Color Health, Burlingame, CA (Remote) | March 2022 - September 2023

- Contracted via Turing.com as a Full-Stack Software Engineer at Color Health's Precision Care Team, contributing to the "All Of Us" program and core genetic product.
- Developed and maintained front-end applications for the "All Of Us" research program and Color's genetic product. Utilized React, TypeScript, and Material-UI to enhance user engagement and experience.
- Spearheaded backend development, creating REST APIs, and Django views, and overseeing data integration projects. Modified Django tables for seamless "All Of Us" report integration, optimizing Python scripts for large-scale data management and system performance.
- Ensured code quality through rigorous reviews and proactive debugging. Actively participated in QA sessions to streamline development processes.
- Collaborated with product managers, genetic counselors, fellow engineers, and cross-functional teams to introduce innovative features and implement crucial bug fixes, fostering a collaborative and results-driven environment.

Software Engineer

Dmark Mobile, Kampala, UG | January 2022 - July 2023

- Developed applications for bulk payments, mobile banking, value-added services, and custom software solutions.
- Managed SMS gateways, establishing direct connections with Airtel and MTN networks, vital for efficient communication with banking institutions.
- Designed and maintained a secure API for mobile money transactions, ensuring seamless financial interactions.
- Spearheaded the configuration, hardening, and ongoing maintenance of AWS Linux servers, tailored to the unique needs of various banking institutions.
- Created innovative applications using the WhatsApp API to facilitate efficient customer engagement for institutions.

Software Engineer

Asteriskint, Kampala, UG | August 2021 - December 2021

- Developed a fintech application for simplified money transfers from the diaspora to African families.
- Integrated the Cybersource payment platform for seamless Credit and Visa card transactions.
- Implemented API authentication with Laravel Sanctum and Twilio two-factor authentication for enhanced security.
- Designed and rigorously tested RESTful API endpoints using Laravel and Postman, ensuring robust functionality.
- Collaborated with various African mobile money APIs to enable hassle-free transfers to mobile numbers.
- Managed and configured Linode servers for optimal performance and reliability.

Software Engineer Intern

Wimea-ICT, Kampala, UG | June 2021 - September 2021

- Collaborated with Wimea-ICT, a research organization at Makerere University, focusing on agriculture-related research with global university partnerships.
- Enhanced a data aggregation web application for IoT devices at weather stations, introducing new features for improved data collection and analysis.
- Contributed to the development of AdEMNEA, a specialized tool for insect pollinator monitoring, collaborating closely with fellow engineers.

Web and Mobile App Freelance Developer

Kampala, UG | August 2018 - June 2021

- I developed mobile apps and websites for diverse clients, including stock management applications, company web profiles, and corporate outreach apps and websites.

Education

Bachelor Of Science in Cybersecurity

Isbat University - 4.8/5.0

August 2018 - February 2023

Bachelor of Science in Software Engineering

Makerere University - 4.08/5.0

August 2018 - December 2021

Masters of Information and Cyber Security

UC Berkley School of Information

January 2024 - August 2025

Technical Skills

Web Development Development: Django, Python, Typescript, React, NextJs, Htmx, Javascript, Typescript, Material UI, Bootstrap CSS, CSS, HTML5

Mobile Applications: Flutter, ReactNative

Cloud Services: GCP, AWS, Vercel, Heroku, Linode

Collaboration: Zoom, Google meets, teams, Skype, Jira, Confluence, Parabol

CI/CD: CircleCi, GitHub, GitHub Actions, Jenkins, Terraform, Docker, Kubernetes, Ansible, AWS Code pipeline, AWS Code Commit, CodeMagic

Testing: Honeycomb, Sentry, Datadog, Jest, React Testing library, Cypress

Languages

English: Native Speaker