SOFTWARE ENGINEER

Lumbert Omwaga Mayoga

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PROFESSIONAL SUMMARY

- Experienced software engineer with a passion for developing innovative programs that expedite the efficiency and effectiveness of organizational success.
- Well-versed in technology and writing code to create systems that are reliable and user friendly.
- Conceptualizing app solutions with the latest technology, design theory, and a large dose of creativity. Committed to viable and easily functional app solutions for clients.
- Self-motivated individual with excellent problem-solving skills. Collaborates with project managers to deliver projects on time and within budget.
- Experience in adapting to projects in various domain and tech stacks. Willingness to learn and use new technologies to meet the requirements of different projects.
- Confident communicator, strategic thinker, and innovative creator to develop software that is customized to meet a company's organizational needs, highlight their core competencies, and further their success.
- 3+ years of experience facilitating cutting-edge engineering solutions with a wide range of e-commerce application and technology skills.

SKILLS

Programming & Frameworks

- **Languages:** JavaScript, TypeScript, Python, PHP, Java, Kotlin, C#, Ruby
- **Backend:** Node.js (Express), Laravel, Django, Flask, Ruby on Rails
- **Frontend:** React (Redux), Next.js, Vue.js, GraphQL, WebSockets
- **Other Tools/Tech:** Redis, RabbitMQ, Linux

Databases

- MongoDB, PostgreSQL, MySQL, SQLite, SQL

DevOps & Cloud:

- **Cloud Platforms:** AWS, Azure, Google Cloud Platform(GCP)
- **CI/CD & Automation:** Jenkins, GitOps, Git
- **Containerization & Orchestration:** Docker, Docker Hub, Terraform
- **Monitoring & Observability:** Prometheus
- **Testing:** Jest

Architecture & Design

- **Patterns:** Microservices, Event-Driven, Modular Monolithic, Multitiered, Serverless, Cloud-Native
- **Principles:** Clean Architecture, SOLID
- **Security & Standards:** OAuth

PROFESSIONAL EXPERIENCE

PwC Kenya

Software Engineer January 2024 - Present

- **Designed and implemented e-invoicing solutions** for Kenya and Zambia, integrating with tax authority systems to streamline compliance and reduce reporting errors for businesses.
- Built and maintained **scalable backend services and APIs** with **FastAPI and Django**, and **frontend interfaces with React and Next.js**, delivering reliable and user-friendly solutions.
- Co-developed a **Tax and Legal Insights platform**, enabling businesses to access, search, and analyze a wide range of legislations and legal information across multiple jurisdictions.
- Led **DevOps initiatives** using **Azure, Azure DevOps, and Docker**, including CI/CD pipelines, cloud deployment, and infrastructure automation—improving delivery speed and operational reliability.
- Partnered with product managers, regulatory experts, and regional engineering teams to ensure compliance-focused technologies met both client requirements and government standards.

Technologies: FastAPI, Django, Next.js, React, Azure, Azure DevOps, Docker, PostgreSQL, REST APIs, Agile/SCRUM

Verus Systems Africa, Nairobi, Kenya

Software Engineer Aug 2022 - Jan 2024

- Designed and maintained **data-centric web applications and services** using Python, Node.js, LINQ, SQL, and PostgreSQL within Agile/SCRUM teams.
- Developed and maintained the **AmCham Information Hub** (Laravel, MySQL,

Vue.js, REST APIs), enabling investors to access real-time market insights.
- **Engineered infrastructure automation**, reducing new-product deployment time from **2 hours to 5 minutes** and eliminating manual processes.
- Implemented **custom Git flows** across QA, staging, and production, improving release reliability and team velocity.
- Optimized a custom JavaScript data grid for cross-browser rendering, achieving **up to 90% performance improvement**.
- Enhanced backend scalability by implementing **caching strategies** and integrating **RabbitMQ (amqplib)** for asynchronous message handling.
- Built and maintained a **RESTful microservices architecture** with Node.js (ES2015, Express, Lodash, Ramda) on **Pivotal Cloud Foundry**, expanding services to meet evolving client needs.
- Partnered closely with the frontend team to ensure seamless backend integration, delivering responsive and reliable user experiences.
- Championed **Agile methodologies and development best practices**, improving collaboration, sprint planning, and delivery speed.

Technologies: Python, Node.js, Express, PostgreSQL, SQL, Laravel, Vue.js, MySQL, RabbitMQ, REST APIs, Pivotal Cloud Foundry, Git, Agile/SCRUM

Nitrogen Technologies Limited, Nairobi, Kenya

Software Engineer Sep 2021 – Aug 2022

- Co-developed a **fintech application** using **React, Node.js (Express), and MongoDB**, deployed on **Microsoft Azure**, enabling secure digital transactions and scalable performance.
- Built **responsive, user-centric interfaces** in React and optimized backend APIs for high-volume requests, improving transaction processing speed.
- Designed and integrated **robust authentication and authorization flows**, ensuring compliance with industry security standards.
- Collaborated with business analysts and stakeholders to align features with financial use cases, enhancing customer experience and trust.
- Leveraged Azure services for **scalable deployment, monitoring, and reliability**, reducing downtime and improving application resilience.
- Introduced **Agile methodologies and best practices**, streamlining delivery cycles and fostering cross-team collaboration.

Technologies: React, Node.js, Express, MongoDB, Azure, Git, Agile

Zalego Academy, Nairobi, Kenya

Android Engineer Intern Feb 2021 – Apr 2021

- Developed and deployed a **Flutter mobile application** for student referrals with **integrated Mpesa payments**, improving payment processing efficiency and user

experience.
- Collaborated on backend development using **PHP and MySQL**, implementing secure APIs and ensuring reliable data management.
- Designed and tested **multiple Android applications**, including:
    - A **healthcare locator app** enabling users to find nearby services in real-time.
    - An **agriculture marketplace app** connecting farmers directly with customers.
    - A **medical supplies delivery app** with enhanced usability and robust error handling.
- Applied **UI/UX best practices** to design intuitive interfaces, enhancing engagement and accessibility.
- Conducted **debugging, root-cause analysis, and edge-case testing** to ensure code quality, performance, and reliability.
- Collaborated with team members and clients to deliver solutions on time, aligning technical feasibility with business goals.

Technologies: Flutter, Android, PHP, MySQL, REST APIs, Mpesa Integration

EDUCATION

Jomo Kenyatta University of agriculture and technology

Bachelor of Science in Information Technology

REFEREES

Felix Maina

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