

Murigi Jesse Wainaina

Software Engineer

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Dynamic software engineer with extensive experience in designing, developing and maintaining scalable applications. Proficient in full-stack development, database administration and DevOps practices. Expertise in delivering efficient cloud solutions using Google Cloud, Microsoft Azure and AWS with a proven ability to optimize systems for performance and resilience. Skilled in client acquisition and social media strategy, achieving significant business growth in competitive fields. Experience working with both startups and established organizations.

Experience

Mid-level Software Engineer - Three Quality Services Ltd *June 2024 - Present*

- **Software-as-a-Service (SaaS):** Designed and deployed scalable SaaS platforms to facilitate seamless interactions between cooperatives, enabling them to securely manage and streamline transactions.
- **Docker Containerization:** Leveraged Docker to containerize applications, ensuring consistent environments across development, testing, and production, while enhancing system portability and reliability.
- **Cross-platform Development:** Built React-based mobile applications using React Native and web platforms to deliver a unified and consistent user experience across devices for cooperative members and vendors.
- **Micro-services Architecture:** Implemented a micro-services architecture for the shared systems application to ensure scalability and modularity of the platform to accommodate additional features.
- **DevOps:** Integrated security into the DevOps lifecycle by automating vulnerability scans and securing containerized microservices, ensuring robust cooperative transaction platforms.
- **Full-stack & SDK Development:** Developed end-to-end solutions for cooperative systems, from React-based web frontends, NodeJS backends to Oracle-backed databases, ensuring seamless functionality across all layers.

Junior Software Developer - Three Quality Services Ltd *March 2023 - June 2024*

- **Identity Access Management:** Designed and implemented robust identity access management solutions for banks and financial institutions, ensuring secure and efficient user authentication. Worked extensively on integrating IAM with core banking systems and fintech platforms to enhance security and compliance.
- **Cloud Architecture:** Architected scalable cloud-based solutions to host shared SACCO systems, leveraging cloud services for high availability and performance. Deployed secure cloud environments for financial institutions, optimizing system reliability and cost-efficiency.
- **Mobile Application Development:** Developed Flutter-based mobile applications for cooperative societies, enabling seamless member transactions and account management.

- **Database Administration:** Managed and optimized Oracle, MongoDB and PostgreSQL databases for SACCO systems, ensuring data integrity and availability. Streamlined database operations to support high-transaction volumes in cooperative and banking platforms.
- **Threat Analysis:** Conducted comprehensive threat analyses for banking and SACCO systems, identifying vulnerabilities and implementing preemptive measures. Ensured compliance with security standards to safeguard sensitive financial data.
- **Incident Response:** Established and executed incident response protocols for fintech and banking systems to mitigate cybersecurity threats effectively. Led teams in real-time resolution of security incidents, minimizing downtime and ensuring data recovery.

Software Development Intern - Three Quality Services Oct 2022 - March 2023

- **API Development:** Designed and implemented RESTful APIs using Node.js, ensuring seamless communication between frontend and backend systems. Developed secure, scalable endpoints to support dynamic web applications.
- **Network Administration:** Monitored and maintained the company's network infrastructure to ensure optimal performance and security. Configured and managed hardware and software for seamless connectivity across the organization.
- **Website Development:** Built and maintained responsive company websites focused on cybersecurity and drones using modern JavaScript frameworks. Enhanced user experience by integrating dynamic features and optimizing load times.
- **Server Deployment:** Deployed and managed web servers to host company websites, ensuring high availability and uptime. Automated server provisioning and configuration for efficient deployment processes.
- **Search Engine Optimization:** Optimized website content and structure to improve search engine rankings and drive organic traffic. Conducted keyword research and implemented analytics tools to measure performance.
- **UI/UX Design:** Created intuitive and user-friendly interfaces for websites, focusing on improving user engagement. Conducted usability testing and iterated on designs based on user feedback and data insights.

Education

Moringa School

- Software Development
- Certified Web Developer

KCA University

- Bachelor of Science, Information Technology

Certifications

100 days of Code: Certified Python Developer

Udemy: Data Science & Machine Learning

Certified Flutter Mobile Developer

Postman API Student Expert Fundamentals

Skills

- **Programming Languages:** JavaScript, Python, Dart
- **Web Development:** HTML, CSS, React, Node.js
- **Mobile App Development:** Flutter
- **Databases:** PostgreSQL, MongoDB, Oracle
- **Frameworks:** Flask, Express.js, Electron, Bootstrap
- **Big Data:** Apache, Kafka, Tableau
- **Cloud Resources:** Google Cloud, Microsoft Azure, Firebase, Heroku
- **Containerization:** Docker