MARTIN MBITHI NZILANI

Software Engineer | Cloud & Systems Architect
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Professional Profile

Results-driven Software Engineer with 7+ years of hands-on experience designing, building, and maintaining scalable web, mobile, and cloud-based systems. Proven expertise in full-stack development, Linux/Unix systems, cloud infrastructure, and API integrations, with a strong record of automating processes, improving system performance, and delivering secure, high-availability solutions.

Experienced across government, NGOs, and private-sector environments, with a strong ability to translate business requirements into robust technical solutions. Adept at Agile delivery, DevOps practices, and mentoring junior engineers. Passionate about building reliable systems that deliver measurable impact.

Core Competencies

- **Programming Languages:** Python, PHP, Java, C, Bash.
- **Frameworks:** Laravel, Django, Flask, Spring Boot
- **Cloud & Server Architecture:** AWS, Google Cloud, Kubernetes, Docker, CI/CD, Linux/Unix.
- **Database Management:** MySQL, MongoDB, PostgreSQL, Redis.
- **Software Development Lifecycle (SDLC):** Agile, Scrum, Kanban, JIRA.
- **Security & Testing:** Unit Testing, Automated Testing, Cybersecurity Principles.
- **Version Control & DevOps:** Git, GitHub, GitLab, CI/CD, Docker &Kubernetes.
- **UI/UX Design:** Adobe XD, Figma.
- **Architecture:** RESTful API Development and Integration, Swagger, Postman, Microservices.

Professional Experience

Government of Makueni County
Software Engineer – Applications Development Section
03/2023 – Present

- Played a pivotal role in automating government services, significantly enhancing service delivery to county citizens by streamlining processes and reducing manual workloads.
- Designed and deployed scalable web and mobile platforms using Java, Python, PHP, and modern web frameworks.
- Architected and maintained RESTful APIs enabling seamless integration with banks, payment gateways, and third-party systems.
- Optimized SQL and NoSQL databases, improving query performance and overall system responsiveness.
- Implemented Git-based workflows, code reviews, and automated testing, reducing production defects and technical debt.

- Mentored junior engineers and collaborated across procurement, finance, and operations to translate policy into working systems.

ICT Authority, Machakos County Headquarters
ICT Officer
01/2022 – 02/2023
- Delivered comprehensive technical support to end-users, swiftly and effectively resolving hardware and software issues.
- Executed the implementation and maintenance of network infrastructure, ensuring uninterrupted connectivity and optimal system performance.
- Conducted routine system audits and implemented robust cybersecurity measures, safeguarding against data breaches and unauthorized access.
- Fostered collaboration with cross-functional teams to design and implement cutting-edge technology solutions, resulting in enhanced efficiency and productivity throughout the organization

World Christian Fellowship NGO
Mobile Application Developer
01/2021 – 11/2021
- Developed and maintained native iOS and Android applications using Swift and Java.
- Collaborated with a cross-functional team of designers and backend developers to deliver feature-rich and user-friendly applications.
- Implemented responsive and visually appealing user interfaces based on design mockups, ensuring a seamless user experience.
- Integrated third-party APIs for features like geolocation services and social media sharing.
- Conducted rigorous testing across multiple devices and platforms to identify and resolve compatibility issues, resulting in a 30% increase in user satisfaction and optimized app performance by analyzing and improving memory usage, reducing loading times by 20%.

Ukamba Bible College
Web Developer and ERP Support Officer
01/2020 – 01/2021
- Collaborated closely with UI/UX designers to bring visually appealing and engaging designs to life, resulting in a 25% increase in website traffic.
- Implemented efficient and maintainable code, adhering to industry best practices and coding standards.
- Optimized website performance by analyzing and improving page load times, resulting in a 15% decrease in bounce rate.
- Conducted cross-browser compatibility testing and resolved compatibility issues to ensure a consistent user experience across different platforms.

Ezana Group
Web Application Developer
01/2020 – 07/2021
- Designed and developed responsive and user-friendly web applications using HTML, CSS, JavaScript, and modern front-end frameworks such as React, Vue and Bootstrap.
- Collaborated closely with UI/UX designers to implement visually appealing and intuitive user interfaces, resulting in a 20% increase in user engagement.
- Utilized back-end technologies such as Node.js and Express to build robust and scalable server-side components and APIs and implemented RESTful APIs to facilitate seamless communication between the front-end and back-end components, enabling dynamic content updates and interactive features.

DevLan Solutions LTD
Software Engineer
01/2018 – 01/2020
- Implemented best practices in software engineering, including code reviews, version control (Git), and unit testing, resulting in improved code quality and maintainability.
- Utilized agile methodologies to deliver features and updates on time, ensuring alignment with project goals and customer needs.
- Developed RESTful APIs to enable seamless communication between various software components, facilitating data exchange and integration.
- Optimized applications performance by identifying and addressing bottlenecks and conducting profiling and performance tuning.
- Investigated and resolved complex technical issues, enhancing software reliability and minimizing systems downtime.

Lauh Print Company Machakos Branch
Graphic Designer
01/2016 – 01/2018
- Collaborated with clients and internal teams to conceptualize and create visually compelling graphics for various projects, including branding, marketing materials, and digital assets.

- Designed and executed print materials such as brochures, posters, and business cards, ensuring alignment with clients' brand guidelines and project objectives.
- Utilized Adobe Creative Suite (Photoshop, Illustrator, InDesign) to craft high-quality designs and artwork, consistently exceeding client expectations.
- Incorporated typography, color theory, and layout principles to create aesthetically pleasing and impactful designs that conveyed the intended message effectively.

Education

- **Software Engineering Certification** – Open University of Kenya 2025
- **Agile Project Management & JIRA Certification** – HP Foundation / Atlassian & GreatLearning 2024.
- **DevOps Certification** – Edurika 2022.
- **Bachelor of Science in Computer Science** - St Paul's University 2017 – 2020.
- **Cyber Security Essentials Certification** - CISCO 2019.
- **Mobile Web Specialist Certification** - Andela / GADS 2018.
- **NDG Linux Unhatched and Essentials Certification** - CISCO 2017.
- **ICDL and Graphic Design** - CTC College, Kawagware, 2016.

Referees

Available Upon Request