

MARTIN MBITHI NZILANI

Software Engineer

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Portfolio: martmbithi.github.io | GitHub: github.com/martmbithi | LinkedIn: <https://bit.ly/martmbithi>

Professional Profile

Experienced Full-Stack Developer specializing in cloud architecture and scalable solutions. With 5+ years of expertise in software development, I excel at building resilient solutions across multiple programming languages, frameworks, and platforms. Adept in cloud infrastructure, database management, and system optimization, I have a proven record of delivering high-quality web and mobile applications that enhance user experience and performance.

Core Competencies

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

Work Experience

Government of Makueni County

Software Engineer – Applications Development Section

03/2023 –

- Played a pivotal role in automating government services, significantly enhancing service delivery to county citizens by streamlining processes and reducing manual workloads.
- Spearheaded the design, development, and implementation of innovative and scalable software solutions, including web applications and mobile apps, using advanced technologies such as JavaScript, HTML/CSS, PHP, Python, and Java, thereby significantly enhancing user experience and client satisfaction.
- Developed RESTful APIs to facilitate seamless communication and integration between various software components, optimizing data exchange processes.
- Implemented industry best practices, including rigorous code reviews, version control (Git), and unit testing, which led to improved code quality, maintainability, and reduced technical debt.
- Applied agile methodologies to manage software development projects, ensuring timely delivery of features and updates that align with project goals and meet customer needs.

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

- **Agile Project Management & JIRA Certification** – HP Foundation / Atlassian & GreatLearning 2024.
- **DevOps Certification** – Edureka 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