

David Mburu

Software Engineer

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Profile

Software Engineer with a strong educational background in Software Development and hands-on experience on real-world projects with various teams. Skilled in web development, natural language processing, game design, and cloud computing, using technologies such as C#, ASP.NET [☑](#), Azure, Docker, JavaScript(NodeJS and Express.js), React, Php, and Python. Driven to deliver high-quality, performant, and reliable solutions that meet clients' requirements and expectations. Eager to learn and apply new skills and technologies in cloud development and contribute to innovative projects in various domains.

Skills

Javascript

Typescript

React

NodeJS

Express.js

Next.js

Python

C ++

Git

GitHub

Azure

PHP

Laravel

Data Structures & Algorithms

Database Management: MySQL, PostgreSQL,
Database Design, Database Modeling

Server-Side Frameworks: Express.js, Payload,
Laravel, Yii2

Soft skills:

- Problem-solving;
- Communication & Collaboration
- Attention to detail
- Domain knowledge acquisition

Professional Experience

03/2024 – present

Part-time Software Engineer

Remote

Nyati Digital Marketing Agency & Tech Consultancy: ☑

- Conceptualized and implemented various digital solutions to function as software as a service, including an e-gaming tournament platform set to revolutionize e-gaming in the East African Market using NodeJS as a backend and Payload CMS, a Next.js backend framework built on top of Node Express.
- Optimised backend code, i.e, query optimisations by utilising ORMs in Node.js such as objection.
- Worked on web3 emerging technologies, creating and deploying contracts in projects built on various cryptocurrencies, e.g., Lisk Ethereum
- Led the creative direction for projects, identifying innovative technology solutions that align with clients' needs.
- Collaborated with team members to ensure high-quality outcomes, integrating user-centered design and functionality into all projects

02/2023 – 09/2024
Westlands- Ikigai,
Kenya

Software Engineer Consultant

Apprentice Cloud

Apprentice Cloud is a technology firm specializing in custom software development and ERP system integrations. During my tenure, I contributed to several key projects, including a government initiative to preserve indigenous knowledge, robust digital financial management tools, and loan management systems :

- Developed task automation workflows using job queues and cron jobs, improving system efficiency and reducing manual overhead and system timeouts.
- Built time tracking and invoicing systems, enabling accurate project revenue calculation and streamlined cost management
- Developed loan-management services using NodeJs, Express.js and PostgreSQL, creating endpoints for loan origination, amortization schedule calculations, payment processing, JWT-based authentication, and QuickBooks integration for report generation.
- Built digital financial management tools, integrating PDFKit for automated invoice generation and using node-cron jobs to export journal entries and financial snapshots on schedule.
- Integrated digital payment gateways and online wallet management modules by consuming third-party banking APIs, M-Pesa APIs, ensuring data integrity by using database transactions and triggers in PostgreSQL.
- Ensured security and code quality by enforcing input validation and encryption for sensitive data, writing unit and integration tests, conducting peer code reviews in Git and GitHub, and systematically debugging production issues.

03/2021 – 09/2021

Software Development Apprenticeship

Wiggles technologies

- Maintenance of websites and apps for various company clients, which happened remotely and on-site.
- Database management such as updating queries and the data in the database.
- Designing new systems for customers according to given specifications.
- Developing apps and internal projects for the company.
- Testing of the developed apps and websites is conducted through various phases of development.

Education

09/2021 – 2025
Ruaraka

Bachelor of Science in Software Development

KCA University

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Machine Organization and Programming, Artificial Intelligence, Mobile App Development, Software Engineering, User Experience/User Interfaces, Object-Oriented Programming
Accounting: financial ledgers, double entry
- **Clubs:** Participated in a robotics and IoT club, gaining hands-on experience with Arduino, IoT fundamentals, and embedded systems for STEM applications

09/2020 – 03/2021

Web and Mobile Development Certificate

Simplon ☑

Trained in developing the back-end of a web and mobile application :

- Create a database
- Develop data access components
- Develop the back end of a web or mobile web application
- Develop and implement components in a content management application

02/2020 – 03/2020

Prorgramming Introduction Certificate

Moringa School

Introduction to programming concepts and languages.Trained in HTML, CSS, JavaScript, JQuery, Bootstrap.

Languages

- English
- German
- Swahili

References

James Gichimu, *Founder*, Apprentice Cloud Limited
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