# Calvin Mwangi

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# Profile

As a software developer, I have gained extensive experience in both Frontend and Backend web development, with a particular focus on creating high-performance web and mobile applications. I have hands-on experience with various programming languages such as JavaScript, Typescript and Python, as well as frameworks like NestJS, NodeJs and Django, including cloud services like Azure, and have worked on integrating third-party systems

# Skills

Languages: JavaScript, TypeScript, Python, Shell/Bash Frameworks/Libraries: Node.js, React, NestJS, Express.js, Hono.js, Drizzle ORM **Databases:** MongoDB, MySQL, PostgreSQL, Firebase **Tools:** Git/GitHub, Bitbucket, Docker, Cloud (Azure, AWS)

# Work Experience

Nathan Digital

## **Backend Developer**

Oct 2023 to Present

Jan 2023 to Aug 2023

- Contributed to the development and implementation of a SaaS platform for the company's systems, focusing on creating personalized domains and separate databases for efficient client data management.
- Spearheaded the development of diverse applications, focusing on performance, scalability, and functionality.
- Developed secure and scalable solutions to support multiple clients independently, ensuring seamless data handling and a smooth user experience.
- Collaborated in the architecture, development, and deployment of key features to enhance customer relationship management processes using NodeJS and MongoDB.
- Utilized Bitbucket for version control, facilitating seamless collaboration within Agile teams.

## The Jitu

## Full-stack Developer

- Collaborate with team members to brainstorm ideas, share knowledge, and contribute to the overall success of the development projects.
- Implement user interfaces using ReactJS. Write clean, modular, and maintainable code for responsive web applications.
- Implement back-end server-side logic and APIs using NodeJS and ExpressJS to facilitate seamless communication between the front-end and database.
- Deploying and managing web applications using Azure cloud services, ensuring high availability and performance.
- Troubleshoot and resolve issues, bugs, and performance bottlenecks across the entire application stack.

#### March 2022 to Nov 2022

#### Zuri Technologies

#### **Back End Developer**

- Designed, developed, and maintained backend services and APIs using the Django Framework, ensuring scalability, security, and performance for the organization's projects.
- Assisted in the development of a comprehensive software solution, leveraging Django's robust ORM and admin capabilities to streamline backend operations.
- Implemented RESTful APIs to facilitate smooth communication between the backend and frontend components, supporting dynamic and interactive user experiences.
- Participated in code reviews, troubleshooting, and debugging to improve code guality and optimize application performance.

## Education

## Software Engineering

ALX Holberton Kenya

I'm a graduate of the ALX software developer training program, where I'm gained hands-on experience in developing and designing software solutions. This intensive training provides me with a solid foundation in software development, learning the fundamentals of software development and building projects using the MERN stack.

#### **Mathematics & Computer Science**

Kirinyaga University

As a computer science student, I have a strong foundation in Data Structures & Algorithms, Software Design and Development. My coursework has provided me with a deep understanding of the principles and practices of computer science, and I have honed my programming skills through various projects and assignments.

## **Projects**

#### Real Time Chat Application 🖸

- Tech Stack: MERN (MongoDB, Express, React, Node.js), Socket.IO, Zustand, TailwindCSS, Daisy UI.
- Designed and implemented a real-time messaging platform enabling users to create accounts, authenticate via JWT, and chat in real-time.
- · Integrated Socket.IO for instant communication and online user status updates with React Context API.
- · Utilized Zustand for global state management and implemented robust error handling on both client and server sides.
- Deployed the application successfully using cost-effective, free deployment platforms.

## Online Voting App

- Built an online voting application using Python and Django, providing a secure and scalable platform for conducting elections.
- Implemented a user-friendly interface for voters to register, log in, and cast their votes.
- Ensured data integrity and security with robust backend logic and authentication mechanisms.
- Designed an intuitive admin panel for managing candidates, overseeing voting processes, and generating results.
- Utilized Django's ORM for efficient database interactions and streamlined data management.

# Certificate

Professional Foundations

Software Engineer

Sep 2020 to Aug 2024

June 2022 to June 2023

Jan 2023 - Aug 2024

Oct 2024 - Present