

Robert Muchiri

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Software engineer with about 2 years experience currently focusing on developing full stack web applications with react and node js utilizing typescript. I am driven by the thrill of learning new technologies and the satisfaction of crafting clean, user-friendly applications.

PROJECTS & EXPERIENCES

My approach involves identifying inefficiencies or limitations in existing software, then leverage my development skills to create solutions that address those real-world problems through user-friendly and impactful applications.

WAERA TASK MANAGEMENT APP,

React, typescript, tailwind css, nodejs, express js, postgresql December 2023–Present

- Problem 1: Inefficient Workflow Management: Traditional task management tools can be static and lack visual cues for workflow progress.
 - Implemented a collaborative Kanban-style board for visualizing tasks, enabling drag-and-drop functionality for intuitive task movement across stages.
- Problem 2: Limited Communication and Collaboration: Disjointed communication channels and lack of real-time updates can hinder teamwork on tasks.
 - Built real-time collaboration features, allowing team members to work seamlessly together. This might include features like task assignment, in-board commenting, and mentions for notifications.
- Problem 3: Uninspiring and Static Interface: Static interfaces can be dull and hinder user engagement.
 - Designed a visually appealing and user-friendly interface with drag-and-drop functionalities.
 - Incorporated user-selectable colours for tasks, enhancing task organization and user experience based on UI/UX design principles.

MISMATCHD E-COMMERCE STORE

Next Js, typescript, tailwind css, postgresql February 2024–Present

- Problem 1: Limited E-commerce Platform Options: Aspiring entrepreneurs might face limited options for setting up and managing their online stores. Existing platforms might be complex or lack customization.
 - Developed a user-friendly e-commerce platform built with ReactJS for a dynamic and responsive user experience.
 - Implemented a comprehensive management interface that allows users to:
 - Create and manage their online stores.
 - Add and edit product listings with ease.
 - Analyse sales data to gain insights into customer behaviour.
- Problem 2: Complex Backend Infrastructure: Building and managing the backend infrastructure for an e-commerce platform can be a technical hurdle for entrepreneurs.
 - Leveraged Next Js to construct a robust and scalable API handling user interactions, product data management, and store creation efficiently.
 - Utilized PostgreSQL, a secure and reliable database, to ensure safe and efficient storage of product information, user accounts, and transaction data.

- Problem 3: Payment Processing Challenges: Integrating secure and user-friendly online payment processing can be a challenge for e-commerce businesses.
 - Integrated Stripe, a secure and seamless online payment processing service, into the platform.
- Problem 4: User Security Concerns: Ensuring secure user authentication and authorization is crucial for any e-commerce platform.
 - Implemented Clerk for robust user authentication and authorization measures, ensuring secure access control for users and protects sensitive data.

EDUCATION

CS50 EdX | INTRO TO COMPUTER SCIENCE

May 2023

- Gained a strong understanding of programming fundamentals, algorithms, data structures, and their applications in various domains.
- Got exposed to diverse programming languages like C, Javascript, Python and SQL.
- Developed the ability to break down complex problems, design efficient solutions, and think critically about various approaches through the assignments and labs offered during the course.

ADDITIONAL SKILLS

- Javascript / Typescript, Node Js, HTML / CSS, Python, SQL, C, Java
- React Js, Next Js, Express, Tailwind CSS, Git & Github, Redux, PostgreSQL, Redis
- Communication, Collaboration, Critical thinking, Problem-solving

