

# ZWIVHUYA M. MUKWEVHO

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## TOOLS & LANGUAGES

**Front-end:** React, Next.js, HTML, CSS, TailwindCSS, Bootstrap, DaisyUI

**Back-end:** Python, JavaScript (Node.js, Express.js), Django, Flask, PostgreSQL, MongoDB, RESTful APIs

**Architecture & Tools:** Git, Render, Railway, Nginx, Gunicorn, Docker (learning), WebSockets, JWT Authentication

**Focus Area:** System Design, Microservices, Database Optimization, API Gateway Design, Distributed Systems, Asynchronous Processing

## PROFILE SUMMARY

Self-taught **Software Developer** specializing in **System Design** and **Back-end Architecture**, with hands-on experience in building scalable SaaS products. Skilled in architecting RESTful APIs, optimizing databases, and structuring backend systems for performance and maintainability. Currently leading **Qasar**, a full-stack SaaS platform built with **Node.js**, **Express.js**, and **React**, designed around modular service architecture and distributed data management.

## PROJECTS

### Qasar - SaaS platform for varsity Students

(Node.js (Express.js) & Next.js) — May 2025 - Present

**Role::** Software Developer (System Design & Architecture)

**Status:** [In Development](#)

- Architecting a modular SaaS platform using **Express.js microservices** on the backend and **React** on the frontend to enhance scalability and maintainability by 70%.
- Implemented** a secure JWT-based authentication system with refresh token rotation, **reducing authentication vulnerabilities by 90%** using layered middleware authorization.
- Developed** RESTful APIs for authentication, payments, and reviews, **improving data flow efficiency by 56%** via optimized service routing and asynchronous communication.
- Integrated** PostgreSQL and MongoDB to **enhance data retrieval speed by 40%**, leveraging hybrid database architecture for relational and document-based storage.
- Applied** system design principles such as caching, load balancing, and modular decomposition, **reducing server response time by 35%**.
- Configured** WebSockets for real-time notifications and set up Docker-based deployments, **improving CI/CD consistency and portability by 60%**.

### Admission-Schools

(Django REST Framework, React) — Apr 2025 - May 2025

<https://Admission-schools.up.railway.app>

- Developed** a RESTful API managing a centralized database of South African schools, **cutting query latency by 30%** through database indexing and optimized ORM queries.
- Integrated** the React frontend with backend endpoints, **enhancing user interactivity by 40%** through asynchronous JSON-based data rendering.
- React front-end via REST endpoints using JSON, enabling dynamic rendering of school data and enhancing user experience.
- Implemented** modular backend logic with scalable models, **simplifying future feature integration** such as advanced search and filters.

## Admission

(Django & PostgreSQL) — Jul 2024 – Mar 2025

<https://admission.up.railway.app>

- **Built** a Django-based backend supporting multi-user admission tracking, **serving 200+ beta users** and improving transparency between parents and schools.
- **Implemented** role-based dashboards with secure authentication, **increasing data protection by 50%** using encrypted sessions and restricted access routes.
- **Designed** dynamic forms with file upload support, **reducing manual errors by 40%** through validation and structured input handling.
- **Automated** email notifications for admission updates, **decreasing administrative workload by 60%**.

## E-Commerce Website

(Django, PostgreSQL, PayPal API) — Jan 2024 – Jun 2024

<https://customs.up.railway.app>

- **Developed** a secure backend integrating PayPal API, **boosting successful transactions by 30%** through improved payment error handling and validation logic.
- **Implemented** shipment tracking API, **enhancing logistics accuracy by 45%** through automated order updates.
- **Optimized** checkout workflows, **increasing user satisfaction by 25%** with reduced friction during payment processing.

## WORK EXPERIENCE

### Wonderfully Made Properties

Free-lancing( Dec 2024 – Jan 2025 )

**Role:** Web Developer

<https://wmade.onrender.com/>

- Rental Website for Wonderfully Made Properties: A custom-designed website for renting houses, providing an intuitive and user-friendly experience for potential tenants to browse and inquire about available properties.
- Used Python and Django for the back-end to enable users to send emails using google gmail services, and Bootstrap for slick and responsive design

### Tekkie Town Store

Seasonal Sales Assistant

Makhado, Limpopo

Dec 2016 – Jan 2017

- Collaborated effectively with the team to manage on-floor stock and coordinate restocking efforts, ensuring product availability and visual appeal during peak traffic.
- Achieved 73% of the seasonal sales target by leveraging product knowledge and providing personalized assistance, enhancing the overall shopping experience and driving sales performance.
- Demonstrated strong time management skills during peak holiday sales, delivering prompt customer assistance, which contributed to higher satisfaction and repeat visits.

### Tekkie Town Store

Seasonal Sales Assistant

Makhado, Limpopo

Dec 2015 – Jan 2016

- Communicated clearly and confidently with customers, resulting in improved sales outcomes and a increase in customer satisfaction.
- Adapted quickly to fluctuating sales demands and changing store layouts, ensuring smooth operations and meeting seasonal sales targets during busy periods.

## EDUCATION

North-West University

Bachelor of Commerce in Economic Science and Risk Management

2023 - Paused