

# ZWIVHUYA M. MUKWEVHO

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## EXPERIENCE

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### Qasar

Backend Software Engineer (System Design Focus)  
Frontend Live | Backend Implementation in Progress

### Vereeniging, Gauteng

May 2025 – Present

<https://qasar.vercel.app/>

- 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

Full Stack Developer, Core Platform Team

### Vereeniging, Gauteng

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

Full Stack Developer, Back-end Focus

### Vereeniging, Gauteng

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

Developer, Back-end Focus

Vereeniging, Gauteng

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.

## 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 an 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.

## TOOLS & LANGUAGES

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**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

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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.

## EDUCATION

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North-West University -- Coursework in Economics and Risk Management  
2023 – 2024

