

ZWIVHUYA M. MUKWEVHO

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EXPERIENCE

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 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.

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.

EDUCATION

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

