ZWIVHUYA M. MUKWEVHO

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EXPERIENCE

Qasar
Software Developer
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

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Vereeniging, Gauteng
Jan 2024 – Jun 2024

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- 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   **Makhado, Limpopo**
Seasonal Sales Assistant   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   **Makhado, Limpopo**
Seasonal Sales Assistant   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
Bachelor of Commerce in Economic Science and Risk Management   2023 - Paused