Mongezi Masombuka

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OBJECTIVE

Final-year Computer Science student passionate about software development, seeking to contribute to impactful tech solutions and grow as a full-stack developer.

EDUCATION

Diploma in Computer Science
Tshwane University of Technology — Pretoria — Final Year

Major Fields:
Software Engineering (Programming): Java, Java JEE (Servlets, JSP, EJB)
Mobile Development: Android (Java/Kotlin)
Business Analysis and Modelling: UML, BPMN, Agile methodologies, requirement gathering tools etc.
Database Development and Administration: Oracle, PL/SQL

PROJECTS

Property Pulse — Full-Stack Real Estate Web App
GitHub | Live Demo

Technologies: Next.js, MongoDB, Tailwind CSS, Cloudinary
- Developed a web app for browsing and managing rental property listings.
- Integrated Google OAuth using NextAuth.js for secure user authentication.
- Handled property image uploads via Cloudinary and built user dashboards.
- Designed responsive UI using Tailwind CSS and improved frontend-backend integration.

Crypto Dash — Frontend Cryptocurrency Dashboard
GitHub | Live Demo
Technologies: React.js, TypeScript, Chart.js, CoinGecko API, Vite
- Built a responsive dashboard displaying real-time crypto data and trends.
- Integrated CoinGecko API to fetch live market prices and chart data.
- Used Chart.js to render interactive price charts for individual coins.
- Implemented client-side routing, loading states, and search/filter UI.
- Strengthened skills in data-driven frontend architecture and UI visualization.

Book Summary API — Backend Project
GitHub

Technologies: Node.js, Express, MongoDB, Mongoose, REST API
- Built a RESTful API for managing book summaries with full CRUD functionality.
- Implemented secure user authentication and access control for protected routes.
- Practiced data modeling using Mongoose and tested endpoints with Postman.
- Strengthened skills in backend architecture and API design.

Rest Countries SPA — Responsive Single Page Application
[GitHub](#) | [Live Demo](#)
Technologies: React, React Router v6, Tailwind CSS, REST Countries API
- Built a responsive SPA that fetches country data from the REST Countries API.
- Implemented features including search, region filtering, detailed country views, and neighbour navigation.
- Integrated light/dark theme switcher for improved user experience.
- Utilized React Router v6 for seamless client-side routing and navigation.
- Designed UI with Tailwind CSS to ensure responsiveness across devices.

Shopping Cart API — Backend Project
[GitHub](#)
Technologies: Node.js, Express, Prisma ORM, REST API, Render
- Built a RESTful API to manage e-commerce shopping cart operations with full CRUD functionality.
- Implemented product browsing features including pagination, search, filtering, and sorting.
- Enabled user-specific cart management to add, update, and remove items securely.
- Configured CORS to ensure seamless integration with frontend applications.
- Deployed the API on Render for live testing and accessibility.

TOOLS & TECHNOLOGIES

Programming Languages:
JavaScript, Java, Python, TypeScript, HTML, CSS, SQL, PL/SQL
Frameworks & Libraries:
Node.js, Express.js, Next.js, React.js, Tailwind CSS, Mongoose, Prisma
Database Technologies:
Oracle, MongoDB, PostgreSQL, MySQL
Operating Systems:
Linux, Windows

SOFT SKILLS
- Strong problem-solving and analytical thinking
- Effective communication and teamwork
- Adaptability and eagerness to learn new technologies
- Time management and organizational skills
- Attention to detail and commitment to quality
- Proactive and self-motivated approach
- Ability to work under pressure and meet deadlines

REFERENCES
Available upon request