

Tshegofatso Mahlase

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SKILLS

FRONT-END DEVELOPMENT | React • Vue • JavaScript • Typescript • Bootstrap • CSS • HTML

BACK-END DEVELOPMENT | Java • C# • C++ • Express • NodeJS • ASP.NET • PHP • jQuery

MISCELLANEOUS | MongoDB • SQL • Git • Linux • Docker • Firebase

SOFT SKILLS | Team Leader • Bias for action

PERSONAL PROJECTS

Thunder- Music Streaming Website

- Developed a React-based music streaming platform integrating Spotify's API for seamless playback.
- Implemented user authentication, personalized playlists, and a responsive UI.
- Containerized with Docker and stored data using MongoDB.

IMath – Mathematical Graphing Tool

- Designed a JavaFX-based tool to graph equations dynamically based on user input.
- Integrated six software design patterns to enhance modularity and maintainability.
- Built for disadvantaged schools to improve math learning accessibility.

Alex Property Listings- Real Estate Platform

- Created a property listing website that allows users to search properties, calculate mortgages, and contact sellers.
- Developed a secure PHP-based API with salting for password hashing.
- Utilized PhpMyAdmin for database management.

Real-Time Auction Platform

- Built a real-time auction application where users can list and bid on items live.
- Used Express.js and WebSockets for real-time data transmission and event-driven interactions.

EDUCATION

UNIVERSITY OF PRETORIA

BSc Biological Sciences • 2022- 2023 • GPA 73.18

BSc IKS (Information and Knowledge Systems) – Software Development • 2023- now (to complete in 2025) • GPA 70.47

HONOURS & AWARDS

Golden key award • One of top students in the EBIT faculty and top 15% student in SA

Invitation to the National Science week • One of the Top students in the NAS faculty

COURSE WORK

- Data structures and algorithms
- developed a smart city simulation in c++.
- created a music sharing website.
- Informatics
- Multimedia
- Developed an angular-based app.
- Developed a movie website based on SQL.

INTERESTS

Travelling • Reading • Fitness • Food • DIY • Self-improvement