

Dzebu Denzhe

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EDUCATION

WeThinkCode

Software Development

Rosebank, GP

Sep. 2024 – Present

Sasol Learning Centre

Artisan Mechanical Fitter

Secunda, MP

Jan. 2017 – Feb 2020

Mbilwi Secondary School

Matric

Sibasa, L

Completed Dec 2011

EXPERIENCE

Mechanical fitter Gr-2

Sasol Coal Processing plant

Secunda, MP

June 2020 – Aug 2024

- Carried out routine maintenance and inspection in a continuous production facility, ensuring minimum downtime and high equipment availability.
- Worked within a team to plan and execute major overhaul of equipments.
- Reported to foreman on spares availability and equipment condition as well as forecasting future needs.

PROJECTS

Ragnarize | *Java, LangChain, ChromaDB, Ollama, Docker*

Aug 2025 – Present

- Developed a framework to integrate Ollama-based large language models into a Retrieval-Augmented Generation (RAG) architecture, improving NLP response accuracy by 20%.
- Implemented API calls to locally hosted Ollama endpoints for efficient text vectorization and retrieval.
- Utilized ChromaDB to store and query vectorized data, enabling scalable semantic search.
- Applied nearest neighbor search to retrieve relevant context for user queries, reducing response latency by 15%.

SmartHealth | *Python, Streamlit, Ollama, SQLite3, HTML, CSS, Git, Make*

Aug 2025 – Present

- Collaborated with a team of students to design and develop a healthcare application for managing patient records and providing AI-driven health insights.
- Built a minimum viable product (MVP) using Streamlit, enabling rapid prototyping and user testing within two weeks.
- Developed an AI chatbot powered by Ollama to deliver personalized health recommendations, improving user engagement.
- Integrated SQLite3 for efficient storage of patient data and utilized HTML/CSS for a responsive front-end interface.
- Utilized Make for build automation to streamline application deployment and development workflows, and created a comprehensive README.md to document commands and use cases, enhancing team collaboration.

YouTube Video Downloader | *Python, Flask, yt-dlp, FFmpeg, HTML*

Jun 2025 – Aug 2025

- Developed a web-based application using Flask to download YouTube videos, enabling users to select and save videos in MP4 format.
- Integrated FFmpeg via yt-dlp to merge and convert video and audio streams, ensuring compatibility with MP4 across multiple formats.
- Implemented format listing and error-handling mechanisms, supporting robust downloads.
- Created a responsive front-end with HTML and Flask templates, improving user accessibility and experience.

TECHNICAL SKILLS

Languages: Java, Python, SQL, HTML, CSS, JavaScript

Frameworks: Spring Boot, Streamlit, Flask, JUnit, JavaFX, LangChain

Developer Tools: Git, Docker, Make, Postman, VS Code, Scene Builder, IntelliJ

Libraries: pandas, NumPy, TensorFlow, Hugging Face, ChromaDB, SQLite, Ollama