

Dzebu Denzhe

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EDUCATION

WeThinkCode	Rosebank, GP
<i>Software Development</i>	Sep. 2024 – Present
Sasol Learning Centre	Secunda, MP
<i>Artisan Mechanical Fitter</i>	Jan. 2017 – Feb 2020
Mbilwi Secondary School	Sibasa, L
<i>Matric</i>	Completed Dec 2011

EXPERIENCE

Mechanical fitter Gr-2	Secunda, MP
<i>Sasol Coal Processing plant</i>	June 2020 – Aug 2024
<ul style="list-style-type: none">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 <i>Java, LangChain, ChromaDB, Ollama, Docker</i>	Aug 2025 – Present
<ul style="list-style-type: none">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 <i>Python, Streamlit, Ollama, SQLite3, HTML, CSS, Git, Make</i>	Aug 2025 – Present
<ul style="list-style-type: none">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 <i>Python, Flask, yt-dlp, FFmpeg, HTML</i>	Jun 2025 – Aug 2025
<ul style="list-style-type: none">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