ZAKARIA MAALIM

SOFTWARE DEVELOPER

CONTACT

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- Nairobi

SKILLS

- React
- AWS services
- RESTful apis
- Django framework
- Pandas library
- NumPy library
- FastApi
- SQL

LANGUAGES

- English: Fluent
- Somali: Intermediate

PROFILE SUMMARY

Self-taught full-stack developer with a strong passion for software development. Experienced in building end-to-end applications, with a focus on backend development and a solid foundation in data engineering. Proficient in Python, Go, and JavaScript, and skilled in frameworks like React and Django. Recently built a full-fledged web application for information retrieval, where I was responsible for the entire development process—ranging from gathering and cleaning raw data from the web to building a scalable search and indexing system. I implemented data chunking, embedding, and indexing techniques to enable efficient searching, while developing the frontend using React and the backend with FastAPI for the webapp. Known for strong problem-solving abilities and effective communication, I'm passionate about creating impactful, scalable solutions and continuously learning new technologies.

WORK EXPERIENCE

Project Deen   2024 - now

Software developer

- Data Collection & Cleaning: Gathered raw data from multiple sources on the web, ensuring the data was relevant, structured, and clean for further processing.
- Embedding & Indexing: Applied machine learning techniques to generate embeddings for the data, and built an indexing system for fast, scalable search functionality.
- Backend Development: Developed the backend infrastructure using FastAPI, ensuring smooth integration between the data processing pipeline and the frontend application.
- Frontend Development: Built the user interface using React, enabling a seamless experience for users to interact with the RAG system and retrieve information.
- Performance Optimization: Continuously monitored and optimized the application for speed and scalability, improving the retrieval process and overall system efficiency.