Saifeddine Baccouche

Software Engineer

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- in LinkedIn

PROFILE

Software Engineer dedicated to developing efficient and secure applications, with a proven ability to optimize system performance.

SKILLS

Programming languages
- Python
- HTML/ CSS/ JAVASCRIPT
- SQL

Google Cloud Platform

SQL/NoSQL Databases
- MongoDB/ Redis
- SQLite/ MySQL

Blockchain

Large Language Models

Keras, Tensorflow

Scikit-learn, Pandas, NumPy

Matplotlib, Seaborn

Version Control Systems
Git/ GitHub/ Bitbucket

Documentation

LANGUAGES

English ●●●●●

French ●●●●○

German ●●○○○

💼 PROFESSIONAL EXPERIENCE

TopHealthTech (Top Doctors) ↗
Research And Development Engineer
September 2023 – January 2025 | Barcelona, Spain

Project: MetrikaMind
- Engineered the backend for Doctor and Patient healthcare platforms (web/mobile) using **Flask** and **GCP**, implementing **Redis caching** and **pagination** for enhanced performance and scalability.

Project: Global EHR Healthcare Data Ingestion
- Collaborated in building an AI document processing system with **Google Gemini** and **LangChain**, standardizing healthcare data.

Project: Content Generator
- Developed a **conversational chatbot** using **Flask** (utilized OpenAI's **GPT-4 Turbo** model).

TopHealthTech (Top Doctors) ↗
Research And Development Intern
March 2023 – August 2023 | Barcelona, Spain
- Developed 2 **Flask-based** backend portals (Doctor and Patient Portals) helping doctors recommend treatment for patients suffering from diabetes type-2.
- Stored patients consent decisions on **blockchain**.
- Designed a consent-aware **search engine** to display only authorized patient data.
- All the data is stored in **MongoDB**.

Zinki AI ↗
Machine Learning Intern
July 2022 – November 2022 | Tunisia
- Developed a **Deep Learning CNN** based model to adjust rotated scanned documents using **Keras**.
- Developed a **web app** using **Streamlit** to easily label the right deviation angle of scanned documents (manually labeling 1248 images).

📁 PROJECTS

PostIT ↗
AI-Based Media Post Generation
Built the **Flask** backend for PostIt, focusing on the seamless integration of **OpenAI**'s **'gpt-4o'** (using **LangChain** framework) to automate social media content generation from user input, using **SQLite** for data storage.

🎓 EDUCATION

Computer Science Engineering Student
National Institute of Applied Science and Technology ↗
September 2018 – November 2023 | Tunis, Tunisia