

Saifeddine Baccouche

Software Engineer

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🌐 LinkedIn

📄 Certificates

- THE DATA SCIENCE BOOTCAMP [↗](#)
- Certificate of completion : AI Development [↗](#)

🧠 Skills

Cloud Platforms

SQL/NoSQL Databases

APIs and Integrations

Tensorflow

Large Language Models

Blockchain

Linux/ Windows

Nvidia Cuda

Healthcare data standards and formats

Version Control Systems
Git/ GitHub/ Bitbucket

Documentation
Confluence/ Postman

🌐 Languages

English	● ● ● ● ●
French	● ● ● ● ●
German	● ● ● ● ●

👤 Profile

Software Engineer with 18+ months of experience developing scalable and secure healthcare applications. Proficient in integrating cloud platforms, FHIR-compliant systems, and implementing data security standards to enhance patient outcomes and operational efficiency.

📁 Professional experience

Research And Development Engineer,
TopHealthTech (Top Doctors) [↗](#)

March 2023 – present | Barcelona, Spain

Project: MetrikaMind

Developed the backend of 2 healthcare platforms: **Doctor Portal** (web app) and **Patient Portal** (mobile app) using **Flask** (Data stored on **Google Cloud Platform** with **FHIR-compliant** structures.)

Project: Global EHR Healthcare Ingestion

Collaborated in the development of a system to extract and convert healthcare documents into **FHIR bundles** using **Google Gemini**, then enriching FHIR resources with **SNOMED codes**

Project: Global EHR

- 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.
- Stored data in **MongoDB** (encrypted and in **OpenEHR** format).

Project: Content Generator

Developed the backend of a **conversational chatbot** utilizing OpenAI's **GPT-4 Turbo** model.

Machine Learning Intern, Zinki AI [↗](#)

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](#)).

🎓 Education

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