

Yessine HALOUANI

Software Engineer

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Sfax, Tunisia — GitHub — LinkedIn

Profile

Software engineer passionate about artificial intelligence, web development, and data science. Experienced in developing interactive solutions and analytical tools.

Education

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- **Engineering Degree in Computer Science**, International Institute of Technology, Sfax
 - **Preparatory Classes in Physics/Chemistry**, Private Polytechnic Institute of Sfax
 - **Scientific Baccalaureate**, Khalij High School, Sfax

Experience

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- **Software Engineer**, EZ-AD, Remote, USA 2025
 - Contributed to the development and optimization of a large-scale e-commerce search engine using Elasticsearch.
 - Improved product relevance by designing and implementing custom analyzers, synonym filters, and relevance-tuning strategies.
 - Developed automated scripts in PHP and MySQL to index and synchronize products across multiple business databases.
 - **AI Chatbot Developer**, Stature Software, Remote, USA 2025–Present
 - Developing LLM-powered chatbot and analytics systems using FastAPI, Next.js, and Pinecone.
 - Built an agentic analytics assistant that consumes real-time business data and lets users query it using natural language, large language models, and predefined KPIs/metrics.
 - Implemented RAG pipelines backed by Pinecone for semantic search over internal data and uploaded CSV files, enabling accurate, source-grounded answers.
 - Designed and exposed LLM-powered analytics workflows as FastAPI endpoints, consumed by a Next.js dashboard for interactive exploration.
 - Integrated the chatbot into internal tools to streamline operations, reduce manual reporting, and improve response time for non-technical stakeholders.

Technical Skills

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- **Languages:** Python, HTML, CSS, JavaScript
 - **Frameworks and Libraries:** React, Next.js, Angular, Node.js, FastAPI
 - **Tools and Technologies:** Apache Kafka, Spark, Elasticsearch, Kibana, Pinecone

Certifications

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- **IBM Big Data Certification** 2024
 - **Cisco CCNA 1 Certification** 2023

Languages

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- **English:** Advanced
 - **Arabic:** Native
 - **French:** Fluent
 - **German:** Intermediate