

# Karim Bouaouina

Sousse, Tunisia

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## Profile

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Junior Full-Stack AI Engineer and Data Engineering enthusiast with a strong foundation in full-stack development (MERN / MEAN). Skilled in designing scalable web applications and data-driven solutions that merge machine learning with modern software engineering. Always eager to explore innovative technologies and deliver impactful digital experiences.

## Professional Experience

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### Cognivance (Le Beau Geste)

April 2025 – October 2025

Data Engineer Intern – Nancy, France (On-site)

- Developed a web content extraction and indexing system to feed the "Cogeo" model with structured data.
- Designed a Full Stack architecture based on **FastAPI** (backend) and **Angular** (frontend), integrating an embeddings engine and a **ChromaDB** vector database.
- Built an automated **web scraping** pipeline (files, PDFs, websites) featuring progress tracking and real-time preview.
- Integrated an **LLM** with backend APIs and databases to optimize result generation.
- Deployed and tested services on **Microsoft Azure App Service**, using **Docker Compose** for both cloud and on-premise configurations.

### Kaa International Trading

June 2024 – September 2024

Full-Stack Web Developer Intern – Sousse, Tunisia (Remote)

- Developed an e-commerce platform showcasing Tunisian cultural and culinary heritage.
- Built the platform using the **MERN** stack and integrated **Tailwind CSS** for a responsive, mobile-friendly interface.
- Designed and implemented an admin and user dashboard for efficient management.

### Satoripop

July 2023 – August 2023

React Front-End Developer Intern – Sousse, Tunisia (On-site)

- Gained hands-on experience with React to strengthen front-end development skills.
- Applied best practices for building interactive and responsive interfaces.
- Developed several projects, including a PokeApp and various portfolios.

## Projects

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### Bank Data Analysis - Power BI Dashboards

December 2024

- Cleaned and processed banking data using Pandas to ensure consistency.
- Created interactive dashboards in Power BI to analyze key financial indicators.
- Developed DAX measures to track client segments, loan performance, and transaction trends.

### Web Scraping Project - Spotify Charts Analysis

November 2024

- Developed an automated Scrapy-based scraper for extracting Spotify song ranking data.

- Implemented data cleaning and transformation pipelines using Pandas.
- Created visualizations to analyze artist rankings and song performance trends over time.

#### **Model Training Project NLP - CV Filtering for Recruitment**

*September 2024*

- Prepared and preprocessed CV data using natural language processing techniques.
- Trained the model on a large dataset to improve the efficiency and accuracy of candidate filtering.
- Evaluated and fine-tuned the model to optimize results and ensure better matching between CVs and job listings.
- Trained a BART model (Facebook) for automated CV filtering as part of an academic project.

#### **Support2Go, Support Ticketing Platform**

*March 2024*

- Created and managed tickets with MongoDB for data persistence and Express.js for APIs.
- Implemented real-time comments and dynamic updates using React.js and WebSockets.
- Secured authentication with JWT and integrated email notifications using Node.js and Express.js.

#### **Kiki Streetwear, E-commerce Platform for Clothing**

*January 2024*

- Developed a user authentication system for client account security.
- Managed a product catalog and shopping cart functionality using Blade templates.
- Implemented order tracking for real-time updates.

## **Technical Skills**

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- **Web Development** : MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Laravel, Symfony
- **Data Engineering** : Python, PostgreSQL, MySQL, BeautifulSoup, Selenium
- **Business Intelligence** : Power BI, DAX, Excel
- **Big Data and Pipelines** : Apache Kafka, Apache Airflow
- **Cloud and DevOps** : Docker, Microsoft Azure (Azure Portal, Azure App Service)
- **Version Control and Methodologies** : Git, Agile Methods

## **Languages**

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- Arabic: Native
- English: C1 (Advanced)
- French: B2 (Intermediate)