

# OMAR BRADAI

## AI & Full stack Engineer

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 Ben Arous, Tunisia

### ABOUT ME

Full-Stack Engineer with a focus on AI and Large Language Models. Experienced in building LLM pipelines, fine-tuning prompts, and delivering production-ready features with Python, React/Next.js, and cloud platforms. Skilled at creating scalable systems, improving performance, and collaborating to build impactful, user-friendly products.

**Portfolio:** [www.omarbradai.tn](http://www.omarbradai.tn)

### WORK EXPERIENCE

#### LLM & Full Stack Engineer (Remote)

Navero LTD | United Kingdom (London) | 04/2025 - Present

- Developed pipelines leveraging Large Language Models (LLMs) for CV analysis, test generation, and document processing.
- Engineered prompt design, tuning, and versioning, including LLM consumption tracking across services.
- Designed and deployed background jobs and microservices using Python and RabbitMQ
- Built and maintained databases and backend applications, integrating RESTful services and third-party APIs.
- Developed user-centric front-end architectures with Next.js, TypeScript, Redux, Redis., and cloud infrastructure (GCP), ensuring scalable and performant solutions.
- Automated repetitive workflows, boosting team productivity and reducing manual effort.
- Oversaw testing, deployment, and optimization of full-stack features for speed, reliability, and seamless user experience.

#### AI & Full Stack Engineer

EmyeHR | Tunisia | 03/2024 - 04/2025

- Automated HR workflows with Generative AI conversational agents, reducing manual effort and response times.
- Fine-tuned GPT-3.5 models for efficient SQL query generation on company datasets.
- Designed and optimized PostgreSQL databases, improving query performance and scalability.
- Developed AI-powered web modules: Angular (UI) and Node.js (APIs and business logic).
- Built synthetic data pipelines with LLMs and CUDA and created benchmarking systems with visualizations to support data-driven decisions.
- Conducted predictive HR analytics R&D using scikit-learn, online and batch learning for employee behavior and attrition trends.
- Delivered full SDLC ownership in agile teams, optimizing frontend and backend performance for scalable, reliable solutions.

#### Machine Learning Intern

Influence Consulting | Tunisia | 06/2023 - 08/2023

- Developed an ASR model for the Tunisian dialect, reducing WER and CER by 10% compared to existing models.
- Built and processed a dataset of 1000+ transcriptions, applying NumPy, OpenCV, and TensorFlow for preprocessing and optimization.
- Implemented the project's web platform infrastructure using Terraform, AWS, Docker, and Bitbucket, enabling scalable deployment and efficient workflows.

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## SKILLS

- **Programming Languages:** Python, C++, JavaScript, TypeScript, SQL
  - **Web & Mobile Development:** React, Next.js, AngularJS, Flutter, FastAPI, Supabase
  - **AI / Machine Learning:** Large Language Models (LLMs), Machine Learning, TensorFlow, NumPy, OpenCV
  - **Cloud Platforms:** Google Cloud Platform (GCP), Microsoft Azure, Amazon Web Services (AWS)
  - **Databases & Messaging:** PostgreSQL, RabbitMQ, Redis
  - **Version Control & CI/CD:** Git, GitHub, GitLab, Bitbucket
  - **DevOps & Containerization:** Docker, Cloud Storage Solutions
  - **Methodologies:** Agile / Scrum
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## PERSONAL PROJECTS

- **Tunisian Dialect ASR Model** : Collected and prepared a custom dataset to fine-tune a deep learning-based Automatic Speech Recognition (ASR) model tailored for the Tunisian dialect.
  - **Smart Parking Garage Door** : Built a working prototype using facial recognition with machine learning, integrated on Arduino with Python for real-time access control.
  - **AI Writing Assistant (Google Docs Extension)** : Developed a Generative AI-powered assistant leveraging LLMs and TypeScript, enabling intelligent content suggestions directly within Google Docs.
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## EDUCATION

National Institute of Applied Science and Technology (INSAT) | 2019-2024

### Industrial Computing and Automation Engineering

British Council | 2013-2018

### First Certificate in English (FCE) C1 Level

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## LANGUAGES

- **English (C1 level)**
- **French**
- **Arabic**