# MARWA IBEN KHALIFA

Fullstack Developer | AI Product Builder

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## PROFILE

Fullstack developer with 5+ years of experience in application backends and applied AI. I build server-side logic for Next.js and TypeScript web applications, including APIs, data access, third-party integrations and authentication. I have shipped payment API connectors, financial data pipelines and production AI agents. Comfortable with complex business logic and using AI tools throughout the development workflow. Master's degree in Big Data and Artificial Intelligence.

## SKILLS

- Backend: Node.js, Next.js, NestJS, TypeScript, Python, FastAPI, REST APIs, microservices
- Frontend: React, JavaScript, TypeScript
- Data & Search: PostgreSQL, MySQL, MongoDB, Typesense, Elasticsearch
- AI & Data: Machine Learning, Deep Learning, LLMs, fine-tuning, NLP, classification, AI agents, RAG
- Product & MLOps: ingestion, training, evaluation, deployment, production, model monitoring
- Cloud & DevOps: AWS, Docker, GitHub Actions, Vercel
- Observability & Automation: Sentry, Grafana, CloudWatch, n8n, scrapers

## PROFESSIONAL EXPERIENCE

### AI Product Builder 05/2025 – Present

*Airporting · Paris · Permanent*

- Designed and deployed LLM-powered financial agents for banking data analysis and user assistance.
- Led an automatic transaction categorization AI product from design to production, combining business rules and AI.
- Orchestrated AI agents, tools and connectors through FastAPI and Node.js REST APIs for real-time and batch use.
- Evaluated, fine-tuned and improved models on real-world data; scoped use cases with product and finance teams.

Stack: TypeScript, Next.js, NestJS, Node.js, Docker, AWS, Python, FastAPI, LLMs, OpenAI

### Fullstack & Data AI Developer 10/2022 – 05/2025

*Airporting · Paris · Permanent*

- Built frontend and backend features, scrapers and autonomous data collection orchestrated with GitHub Actions and dedicated Hetzner servers.
- Migrated legacy Google Apps Script code to Node.js and rebuilt search with self-hosted Typesense.
- Developed the backend and frontend of an AWS-hosted SaaS platform and banking data pipelines.
- Implemented observability with Sentry, Grafana and CloudWatch; deployed a self-hosted n8n instance.

Stack: TypeScript, Next.js, NestJS, Node.js, React, Python, FastAPI, Typesense, Docker, AWS

### Freelance Developer · Automation & Web 2026

*Freelance engagement*

- Built custom automation and integrations using APIs, n8n, Notion, connectors and web scraping.
- Delivered frontend and backend applications end to end, from requirements to production.

Stack: Node.js, React, REST APIs, n8n, automation, LLMs

### Data & Automation Developer 09/2021 – 08/2022

*Adroi · Paris · Work-study contract*

- Designed KPI dashboards and automated reporting for business operations.
- Extracted, structured and analyzed CRM data.
- Migrated and secured a legacy Google Apps Script project while maintaining service continuity.

Stack: Google Apps Script, JavaScript

## SELECTED PROJECTS

### Bank Transaction Categorization · Fintech

End-to-end ML system from data pipeline to production API. Hybrid business-rules and AI architecture exposed through FastAPI for real-time and batch processing on a GDPR-compliant European cloud.

Stack: Python, FastAPI, scikit-learn, Node.js, Docker, REST APIs

**AI Financial Agents · Fintech**
LLM-powered agents for financial data analysis and user assistance, with tool and connector orchestration exposed through an API.
Stack: Python, LLMs, OpenAI API, FastAPI

**Search Architecture Redesign · Typesense**
Migration to scalable, self-hosted full-text search with optimized indexing, advanced filtering, lower costs and full data ownership.
Stack: Typesense, REST APIs, Node.js

**Boldee.co Backend · B2B PropTech**
Backend for a B2B SaaS platform serving property managers and contractors, including quote, approval and notification workflows.
Stack: Node.js, PostgreSQL, REST APIs

**Ayany Agency · Automation & Web**
Custom automation, integrations and web development for a digital hospitality client.
Stack: Node.js, React, REST APIs, n8n, Notion

**Clara Retail · Noka Collection & DressByNK**
Two retail management applications covering stock, sales, inventory and administrative operations, with an experience optimized for fast daily use.
Stack: Lovable, React, TypeScript, PWA, SaaS

**English Teacher Website**
Designed and launched a modern showcase website to present her courses, strengthen her online presence and make enquiries easier.
Stack: Lovable, React, TypeScript, Web

**Veiled Girl Boutique · E-commerce**
Built an online scarf and accessories store for Tunisia, with a simple ordering journey and cash-on-delivery.
Stack: Lovable, React, TypeScript, E-commerce

## EDUCATION

**Master’s Degree · Information Systems, Data & AI Development** 09/2021 – 08/2023
*IPSSI · Montigny-le-Bretonneux*

**Bachelor’s Degree · Fullstack Web Development** 06/2020 – 12/2020
*Ironhack · Paris*

## CERTIFICATIONS

- Python & AI training: Machine Learning and Deep Learning.

## LANGUAGES

- Arabic: native.
- French: bilingual.
- English: professional proficiency.

## INTERESTS

Photography, travel, emerging technologies.

## REFERENCES

Professional references available upon request.