



## Contact

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### Address

Tetouan

### Linkedin

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### Github

<https://github.com/hamzatlh>

## Language

English – Advanced

French – Good

Arabic - Native

## SKILLS

**PROGRAMMING LANGUAGES:** C/C++, PYTHON, JAVASCRIPT/TYPESCRIPT.

**FRONT-END DEVELOPMENT:** HTML/CSS, REACT, REACT-NATIVE, NEXTJS, TAILWIND, SHADCN UI,

**BACK-END DEVELOPMENT:** DJANGO, FASTAPI, FLASK

**DATABASES:** POSTGRESQL, MONGODB, MYSQL, SQLITE.

**TOOLS:** GIT, DOCKER, LINUX, POSTMAN, N8N

## Extracurricular activity

### Founder & President of LEECHTCHAT club :

- Developed and hosted a podcast at 1337 School focused on software engineering topics.
- managing the club's activities and engaging with diverse audience.

### Experience Manager/Team member of AIESEC in Morocco :

- Oversaw the entire exchange process for the applicants in the exchange programme, ensuring a seamless and valuable experience from sign-up to reintegration.

# Hamza Talhaouia

## AI Software Engineer

## Work Experience

### NovoAgent

Remote

22/04/2026 – Present

#### AI Software Engineer

- Built from scratch a production-ready **RAG microservice** (FastAPI, pgvector, Celery, S3) with two-stage retrieval, Voyage AI embeddings and reranking, exposed to AI agents as a **LangChain** tool.
- Built an **AI missed-call system** with Telnyx: voicemail transcription, AI lead extraction and **WhatsApp (Meta API)** / email notifications to leads and managers.
- Integrated real-estate CRMs (**Apimo, Bitrix24, Property Finder**) via a new property microservice, giving AI agents live property search with agency-defined rules.
- Delivered an **AI support assistant**, KB management UI in **React**, and secure JWT service-to-service auth between Django and FastAPI services.
- Validated every feature with real end-to-end tests (**Playwright**) and added observability with **Prometheus** and **Grafana**.
- Built an in-browser **missed-call simulator** in the agent playground and started the NovoAgent mobile app with **React Native / Expo**.

### Vynta LLC

Remote

01/10/2025 – 31/03/2026

#### AI Automation Engineer

- Designed and deployed scalable automation workflows using n8n, enabling seamless integration between multiple platforms and services.
- Built AI-driven systems leveraging LangChain and LangGraph to orchestrate agent-based workflows with reasoning, memory, and tool execution.
- Integrated and managed diverse third-party APIs (Microsoft services, WhatsApp APIs, Fireflies.ai, 2Chat), ensuring reliable data exchange and communication automation.
- Developed end-to-end pipelines handling data ingestion, transformation, and automated actions across distributed systems.
- Implemented real-time messaging automation and optimized systems for scalability and fault tolerance, with error handling and retry mechanisms.

### Cu4tro Studio

Tetouan, Morocco

17/03/2025 – 29/09/2025

#### FULLSTACK WEB DEVELOPER

- Collaborated using Python/Django, FastAPI frameworks for the backend and JavaScript/Next.js, tailwind v4, shadcn for the frontend.
- Developed an AI chatbot utilizing Retrieval-Augmented Generation (RAG) and embeddings, AI SDK.
- Structured all frontend projects clearly by harnessing the advantages of a monorepo.

### ELBOTOLA MEDIA

Rabat, Morocco

06/02/2024 – 25/07/2024

#### FULLSTACK WEB DEVELOPER Intern(PFE)

- Developed a Gaming Profile and Management Platform with Social and Event Features using FastAPI, Django, React and MongoDB.
- Collaborated with a team following Agile methodologies.

## Education

### Mohammed VI Polytechnic

University - 1337 Coding School

09/2022 - Currently

#### IT ARCHITECT

- Current Pursuit: Currently pursuing a degree in Computer Engineering to further expand my skills and knowledge in the field.
- Project-based, peer-to-peer learning (42 Network) covering C/C++, algorithms, Unix systems, networking and full-stack web development.