

# WAHID SLIMANI

## Full-Stack & AI Engineer

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Product-oriented engineer with a proven track record of shipping production-grade SaaS platforms, AI-powered systems, and real-time backends from concept to deployment. Specializes in full-stack architecture, backend performance optimization, LLM orchestration, and end-to-end observability. Brings a rare combination of deep AI/ML expertise and pragmatic engineering discipline building systems that are fast, reliable, and built to scale.

## EXPERIENCE

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### Full-Stack & AI Engineer (Part-Time) — Numilex • Sep 2024 – Present

- Designed and shipped 5+ SaaS and internal productivity tools using React, Next.js, Node.js, Python, and PostgreSQL. Each delivered in production with CI/CD pipelines from day one.
- Cut deployment time by ~60% by standardizing Dockerized environments, automated pipelines, and reusable deployment workflows across all projects.
- Built AI-powered automation systems using LangGraph and LLM orchestration pipelines, improving team operational efficiency through intelligent retrieval-based workflows.
- Drove backend performance gains of 30–40% in average response latency through query optimization, Redis caching strategies, and targeted API improvements.
- Architected real-time features using WebSockets and reliable background job processing with BullMQ, enabling async task execution at scale.
- Deployed full observability stacks with Prometheus metrics collection and Grafana dashboards, providing live visibility into infrastructure and application health.
- Improved AI response quality through retrieval pipelines, validation layers, scoring systems, and real-time web enrichment measurably reducing hallucination rates.
- Built vector-search-based knowledge management systems for automated content organization and intelligent internal linking.
- Benchmarked LLMs, APIs, vector databases, and SaaS platforms to drive informed engineering and product decisions.

### Full-Stack Developer — Freelance • 2023 – Present

- Designed and delivered custom business platforms across web, mobile, and desktop environments for clients across multiple industries.
- Owned complete end-to-end delivery frontend interfaces, backend APIs, authentication, databases, and deployment infrastructure as a solo engineering owner.
- Automated large-scale data collection and analysis workflows, eliminating ~70% of manual processing overhead for clients.
- Integrated Redis for session management, caching, and pub/sub messaging across distributed service components.
- Managed full product lifecycles from architecture through deployment, ongoing monitoring, and maintenance.

## PROJECTS

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### CRC MedAI • Real-Time Colorectal Cancer Detection & Prognosis Platform

- Developed a real-time medical AI platform integrating computer vision models into clinical-grade healthcare workflows.
- Built end-to-end ML pipelines covering model training, evaluation, inference, and production deployment following MLOps best practices.
- Developed healthcare interoperability APIs using FHIR standards for seamless integration with external medical systems.
- Configured Prometheus exporters and Grafana dashboards to monitor model inference latency, throughput, and system health in real time.

- Architected a modular microservice backend for AI inference workloads, containerized for scalable and reproducible deployment.

#### **RSM Suite** · *Rental Management SaaS Platform*

- Built a full SaaS platform handling inventory, rental operations, billing, and financial reporting for multi-client environments.
- Implemented real-time availability management and dynamic pricing via WebSockets, with BullMQ powering scheduled billing cycles and automated report generation.
- Refactored into a modular, domain-driven architecture enabling clean separation of concerns and advanced financial operations.

#### **AmlilApp** · *Multilingual Marketplace & Service Management Platform*

- Built a marketplace connecting clients and service providers featuring booking, scheduling, certifications, and analytics dashboards.
- Powered real-time notifications with WebSockets and delivered full multilingual support across four languages tailored to regional market needs.

#### **M3allem Pro** · *Mobile Application — React Native*

- Built a mobile-first management tool for artisans covering invoicing, inventory, scheduling, and client management with offline-first design for unreliable networks.
- Shipped multilingual interfaces and DZD currency support targeting the Algerian market.

#### **Solar3D** · *Interactive 3D Solar System Simulation*

- Browser-based educational simulation using Three.js with real-time orbital mechanics, dynamic lighting, comets, and meteor effects.
- Multilingual support in Tamazight, Arabic, French, and English with interactive quizzes for learning engagement.

#### **Atomica** · *Interactive 3D Quantum Atom Simulator*

- Browser-based simulator visualizing atomic orbitals, probability clouds, wavefunctions, and energy levels for all 118 periodic table elements.
- Combined physics simulation, mathematical visualization, and educational UX into a real-time interactive experience.

#### **Additional Projects**

- Facial Recognition Check-In System — Biometric check-in integrated with notification and payment systems.
- Rental Management Desktop App — Full-featured business management software built with PyQt6.
- ToothMap — Medical dental imaging and deep learning classification system using PyTorch.
- Traffic RL Agent — Reinforcement learning agent trained within the SUMO traffic simulation environment.

## **TECHNICAL SKILLS**

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**Languages:** Python, TypeScript, JavaScript, SQL

**Frontend:** React, Next.js, Tailwind CSS, Three.js

**Backend:** Node.js, Express.js, Fastify, NestJS, REST APIs, WebSockets

**Mobile:** React Native (Expo)

**AI & ML:** PyTorch, Deep Learning, Computer Vision, Reinforcement Learning, LangGraph, AI Agents, RAG

**Databases:** PostgreSQL, MongoDB, MySQL, Redis

**Queue & Messaging:** BullMQ, Redis Pub/Sub

**Observability:** Prometheus, Grafana

**DevOps:** Docker, CI/CD, Git, Linux, VPS Deployment

**Architecture:** SaaS Design, Microservices, API Design, System Design, Modular Architectures

## **EDUCATION**

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**Higher School of Computer Science (ESTIN)** · 2021 – 2026

Engineering & Master Degree — Artificial Intelligence & Data Science

**Institute of Electrical and Electronic Engineering** · 2020 – 2021

**Baccalaureate — Mathematics** · *High Honors (2021)* **Technical Mathematics** · *High Honors (2020)*

## LANGUAGES

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**Kabyle** (Native) **Arabic** (Fluent) **French** (Fluent) **English** (Fluent)