

Ayoub Edahlouli

Software Engineer · Full-Stack Developer · Master 3IA (AI) Student

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Professional Summary

Reliable and driven **Software Engineer** pursuing a **Master's in Computer Engineering & Artificial Intelligence (Master 3IA)**. Working as a **Full-Stack Developer at COMSYS**, with deep expertise across both the **.NET ecosystem** and the **MERN stack**. Passionate about crafting high-end digital experiences, designing multi-tenant SaaS architectures, and integrating advanced AI solutions into real-world products.

Professional Experience

COMSYS Communication System Group

Full-Stack Developer

July 2024 – Present

Casablanca, Morocco

- ▶ Designed and developed the official **COMSYS corporate website (comsys.ma)** – a modern identity platform featuring advanced animations, interactive UI, and scroll-driven transitions built with **Next.js**, **Framer Motion**, and **SASS**.
- ▶ Engineered **OptiGestion**, a multi-tenant SaaS for HR & administration, using a **database-per-tenant** isolation strategy with **ASP.NET Core** and **React** – ensuring scalability and data security across clients.
- ▶ Designed **RESTful APIs** following clean architecture patterns (CQRS, Repository Pattern) for maintainability and testability.
- ▶ Built **CI/CD pipelines** and managed containerized deployments with **Docker** and **SQL Server**.

M2T

Front-End Developer

2023 (2-Month Internship)

Casablanca, Morocco

- ▶ Modernized legacy UI components using **JavaScript** and **jQuery**, improving user retention and interface responsiveness.
- ▶ Delivered pixel-perfect, cross-browser compatible interfaces in collaboration with the design team.

Selected Projects

COMSYS Corporate Website

comsys.ma

Modern corporate identity website with advanced animations and interactive UI. Built for Comsys Group with a focus on SEO performance and smooth user experience.

Next.js · Framer Motion · SASS · TypeScript · REST API

SHEAIMS Cosmetics

sheaims.com

Full-stack e-commerce platform for luxury cosmetic products. Custom backend API, secure checkout, product catalog, and admin dashboard. Deployed on VPS with Nginx for maximum performance.

Next.js · Express.js · Node.js · PostgreSQL · TypeScript · JWT · Nginx · Framer Motion · SASS · REST API · Linux

Mowakaba.AI

AI Capstone Project – Master 3IA

Voice-first mobile assistant for Moroccan administrative procedures in Darija. Citizens can ask complex questions vocally and receive step-by-step guidance. Features OCR-based document simplification, intelligent checklists, and a RAG pipeline querying official legal texts via a vector database.

React Native (Expo) · Python · LLM / RAG · Whisper (Speech-to-Text) · Vector DB · TypeScript

Elkouhen Beauty & MedSpa

Live Demo

Dual-interface medical website representing two distinct clinics – Beauty Clinic (Surgery) and MedSpa (Wellness) – with a unified design system and distinct branding per section. Complex routing and shared component architecture.

Next.js · Framer Motion · SASS · TypeScript

OptiGestion

Enterprise-grade multi-tenant HR and administration SaaS. Database-per-tenant isolation, role-based access control, payroll modules, and real-time analytics.

ASP.NET Core · C# · React · SQL Server · Docker · CQRS

NeuroKey v1.0

Offline-first, Zero-Knowledge password manager. AES-256 local encryption, biometric authentication (FaceID/TouchID), and a breach detection system using the HaveIBeenPwned API via k-Anonymity (SHA-1 hash truncation). ProGuard obfuscation on Android builds.

React Native (Expo SDK 52) · TypeScript · AES-256 Encryption · Biometric Auth · k-Anonymity · EAS Build

Education

Master in Computer Engineering & AI (Master 3IA)

FSAC – Faculté des Sciences Ain Chock

In Progress
Casablanca, Morocco

Licence (Bachelor) – Software Development

FSAC – Faculté des Sciences Ain Chock

2025
Casablanca, Morocco

Software Developer Bootcamp

GoMyCode

2024
Casablanca, Morocco

DUT – Computer Engineering

École Supérieure de Technologie (EST)

Sep 2019 – Jul 2021
Agadir, Morocco

Technical Skills

AI & Data Science	Python, LLM, RAG, Whisper, NumPy, Pandas, Matplotlib, Scikit-learn
Front-End	React.js, Next.js, TypeScript, Framer Motion, Tailwind CSS, SASS, HTML5
Back-End	ASP.NET Core, C#, NestJS, Node.js, Express.js, REST APIs, JWT
Mobile	React Native (Expo), .NET MAUI, Expo Router, EAS Build
Databases	SQL Server, PostgreSQL, MongoDB, Redis, Vector Databases
DevOps & Infra	Docker, Nginx, Git, Jenkins, GitHub Actions, CI/CD, VPS, Linux
Architecture	Multi-tenant SaaS, CQRS, Clean Architecture, Zero-Knowledge, Repository Pattern

Languages

English	Professional Proficiency (B2–C1)	French	Professional Proficiency (B2)
Arabic / Darija	Native / Bilingual		

Interests & Values

AI research · Minimalist UI/UX design · Open-source contribution · SaaS product building · Cybersecurity · Continuous self-improvement