Ayoub Nassih *Full-Stack and AI Developer*

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Profile

Engineering student in Digital Transformation and Artificial Intelligence, passionate about **software development, Machine Learning, Cloud & IoT, and technology project management**. Seeking an internship to apply **programming, database management, web & mobile application development, and AI skills**, while contributing to **innovative, real-world projects**.

Education

09/2022 – present	**Engineering School: École Nationale des Sciences Appliquées d'Al Hoceima Engineering School:** École Nationale des Sciences Appliquées d'Al Hoceima (ENSAH)Completed **two years of preparatory studies in Science and Technology**, followed by **three semesters in the engineering cycle** specializing in **Digital Transformation and Artificial Intelligence**.Built solid foundations in **data analysis, artificial intelligence, Big Data architecture, and digital transformation**, with exposure to **IT project management** and innovation-driven enterprise solutions.

Skills

Advanced Machine Learning
Solid academic foundation in Machine Learning, with in-depth coverage of classical algorithms, evaluation methodologies, and optimization techniques. Introductory knowledge of neural networks focusing on forward and backward propagation.

Web Development
Proficient in **HTML/CSS**, **JavaScript**, and familiar with frameworks like **LARAVEL** for Frontend/ Backend .

Microsoft Azure (Fundamentals)
- Hands-on experience with **Microsoft Azure**, including:
  - Creation and configuration of **IoT Hub**
  - Device registration and connection to cloud services
  - Basic cloud resource management and monitoring

Programming Languages
Proficient in C, Python, Java, PHP, and JavaScript, with experience in desktop, web, and mobile application development.

Version Control
Proficient in **Git** for collaborative coding and version control.

Mobile Development
Building cross-platform mobile applications with Ionic, allowing the app to run on both iOS and Android

Cloud Computing & IoT
- Strong theoretical understanding of **Cloud Computing** concepts: scalability, virtualization, service models (IaaS, PaaS, SaaS), and cloud architectures.
- Solid knowledge of **Internet of Things (IoT)** ecosystems, including device communication, data flow, and cloud integration principles.

ERP Systems – Odoo
Practical experience with Odoo ERP, understanding its modular architecture and business workflows. Familiarity with ERP concepts such as inventory, sales, and business process automation.

Database Management
killed in designing and managing relational databases with **MySQL**, including query optimization and data modeling.

Operating Systems
Strong knowledge of **Linux** environments, including shell scripting and system administration.

Desktop Development
Desktop application development with Python and PySide, including database management.

Projects

Procurement Management System – Laravel
Enterprise-style **purchase request and approval system** with multi-role workflow.
- Designed a **role-based approval process** across 6 organizational roles.
- Implemented secure middleware, dashboards, and request lifecycle management.
- Built and optimized a relational database with 10+ entities. **Tech:** Laravel, PHP, MySQL, Vite, Role-Based Access Control

Career2Life – AI-Powered Career Planning Platform
ull-stack web application using Machine Learning to support **career, salary, car, and housing decisions** tailored to the Moroccan market.
- Built **3 ML prediction systems**: salary prediction, car affordability analysis, and real estate price estimation.
- Trained models on **20,000+ localized records** (jobs, cars, properties) using Gradient Boosting and ensemble techniques.
- Developed a **secure REST API** (Flask) with rate limiting, input sanitization, and CORS control.
- Designed a modern **Angular frontend** with animated components, dark/light mode, and responsive UX. **Tech:** Angular, Flask, scikit-learn, XGBoost, pandas, Vercel, Render

BudgetChef - Healthy Meal Planner
A desktop application that generates personalized healthy meal plans based on the user's daily budget and fitness goals (weight loss, muscle gain, or maintenance). The app provides customized recipes, grocery shopping lists, nutritional guidance, and allows users to calculate the calorie content of their meals to better track their intake.

GEMINI Prompting, HTML, CSS, JavaScript

Hotel Reservation System – Odoo ERP Addon
Custom **Odoo module** for hotel room and reservation management with a full website interface.
- Developed backend models for rooms, reservations, and synchronization logic.
- Built portal and website pages for booking, tracking, and dashboards.
- Implemented access control, demo data, scheduled jobs, and a **mock API** for integration testing. **Tech:** Odoo, Python, XML, QWeb, PostgreSQL

BudgetChefV2 – Smart Budget-Aware Meal Planning App
Intelligent meal-planning system generating **personalized, low-budget nutrition plans**.
- Generates daily meals optimized for calories, macros, and user goals.
- Implements **reinforcement learning** to adapt meals based on user preferences.
- Integrates **real-world food pricing** via web scraping (Walmart, Target, Instacart).
- Frontend dashboard with interactive UI and animations. **Tech:** Flask, React, Selenium, Reinforcement Learning, JSON datasets, Framer Motion

AloDoctor – Plateforme SaaS Médicale Multi-tenant
Plateforme B2B permettant aux cabinets médicaux de gérer rendez-vous, prescriptions et communication patient via **WhatsApp**.Int ↗ égration d'un **chatbot IA multilingue (FR/AR/EN)** capable de traiter messages texte et vocaux, gérer les rendez-vous et le suivi des traitements.Système de **calendrier médical**, validation/annulation avec notifications automatiques.Génération et envoi d'**ordonnances PDF sécurisées** avec QR codes.**Technologies :** Node.js, Express.js, MySQL, Next.js, React, TypeScript, TailwindCSS, Groq SDK (LLM), Google Cloud Speech-to-Text, whatsapp-web.js, JWT, PDFKit.

Uba - Gym Management App
An innovative desktop application to simplify gym subscription, attendance, and payment management, with additional messaging functionality for gym members to communicate.
Technologies: Python (PySide), MySQL.

Web-Based Attendance Management Application:
A simple and efficient web application for managing employee attendance. It allows users to register their check-ins and check-outs through an intuitive interface, view attendance history, and generate basic reports. The application is designed with a responsive front-end for a smooth experience across all devices.
Technologies: **LARAVEL**, **HTML, CSS, JavaScript, MySQL.**

Saud Location - Car Rental System
A desktop app for managing car rentals, offering real-time booking, vehicle management, and automated billing.
Technologies: **C**, file management.

Languages

French	English	Arabic
B2 Rosetta	C1 Rosetta	Native

Interests

**Photography and Videography
Cinematic storyteller and
multimedia creator**, passionate
about **capturing moments and
scenes in ways others don't
imagine**, transforming ordinary or
overlooked subjects into
stunning, cinematic visuals.
Skilled in **professional
photography, videography, and
editing**, with experience creating
**engaging content for businesses,
promotional campaigns, and
social media**, combining
**technical mastery, creative
vision, and storytelling impact**.

Digital Marketing
Experience in creating advertising
campaigns for agencies.

Soft Skills

Communication
Clear and adaptable in exchanges.

Problem-Solving
Innovative and effective approach.

Time Management
Prioritization and meeting deadlines.

Adaptability
Flexibility in the face of change.