

Zakaria Ahrbil

Software Engineering Student | Full-Stack Developer

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Profile

Software Engineering student passionate about Full-Stack web development and artificial intelligence, with experience in designing web applications and implementing AI solutions. Currently seeking a PFE internship, I aim to join a dynamic team to enhance my technical skills and contribute to innovative, high-impact projects.

Education

— Software Engineering

National School of Applied Sciences | 2021 – 2026 | Agadir

- Engineering program in computer science covering software engineering, intelligent systems, and computer networks
- Acquired skills in software development, system architecture, and technology project management

— Electrical Engineering and Mechanical Engineering

Faculty of Sciences and Techniques | 2020 – 2021 | Tangier

— Baccalaureate in Mechanical Sciences and Technologies

Lycée Ibn Soulaimane Rasmouki | 2018 – 2020 | Tiznit

Professional Experience

— Full-Stack Developer Intern & Graphic Designer

Mondial Berry | 06/2025 – 07/2025 | Agadir

- Complete overhaul of the company website to enhance user-friendliness, performance, and visual identity
- Design and development of a mobile application for creating and managing quality reports

— AI & Backend Developer Intern

Stemos | 02/2025 – 05/2025 | Aït Melloul

- Design and development of an automatic administrative document enrichment solution using AI (OCR, LLM, RAG)
- Backend development (FastAPI) and implementation of communication between AI modules and frontend

Projects

— Quality Control Application – Mondial Berry

- Design and development of an Android application to digitize quality control of agricultural products.
- Integration of multi-step data entry, image capture, and automatic PDF report generation.
- *Technologies* : Expo, React Native, PHP, Supabase, MySQL, NativeWind

— Showcase Website – Mondial Berry

- Redesign and development of the company website to optimize the presentation of its activities and user experience.
- Implementation of a modern, responsive, and animated interface.
- *Technologies* : Figma, Next.js, Tailwind CSS, Framer Motion, Vercel

— AI-Powered Document Extraction Automation – End of Year Project

- Design and development of an intelligent local solution for automated extraction of administrative data
- Responsible for selecting and integrating AI technologies : LLM models and OCR engines
- Creation of the communication system between OCR and LLM components with prompt optimization
- Development of the user interface (Front-end) and backend API (FastAPI)
- Implementation of the image processing pipeline : sharpness enhancement, contrast, and resizing with OpenCV and Real-ESRGAN
- *Technologies* : Python, FastAPI, LlamaCpp, Next.js, PyTorch, OpenCV

— Agile Management Web Application

- Backend development for an Agile project management application with user stories, epics, sprints, and task management.
- Implementation of secure authentication (JWT) and API documentation via Swagger.
- *Technologies* : Spring Boot, JWT, MySQL, Swagger

Technical Skills

- **Languages** : Java, Python, JavaScript, C++, C#
- **Frameworks** : React.js, Next.js, Spring Boot, FastAPI
- **Mobile** : React Native, Expo, NativeWind
- **Databases** : MySQL, Oracle, SQLite, Firebase
- **Tools** : Git, Docker, Vercel, cPanel, Conda
- **AI & Vision** : OpenCV, PyTorch, Real-ESRGAN
- **Design** : Figma, Adobe Photoshop, Adobe Illustrator

Languages

- French (C2 - TCF)
- English (C1)
- Arabic (Fluent)

Clubs and Organizations

- **ADE ENSAA** - Designer and social media manager | 2023 – 2024
- **JEEA** - Designer and social media manager | 2023 – 2024

Personal Qualities & Interests

Curiosity · Technological Passion · Collaboration · Adaptability · Autonomy