Zakaria Ahrbil

Software Engineering Student | Full-Stack Developer

✉ zakariaahr@gmail.com | 📞 +212 645-541142 | 📍 Agadir, Maroc | 🔗 LinkedIn | 🐙 GitHub | 🌐 Portfolio

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 - EF SET)
— Arabic (Fluent)

Clubs and Organizations

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