

# Zakaria Ahrbil

Software Engineering Student | Full-Stack Developer

[✉ zakariaahr@gmail.com](mailto:zakariaahr@gmail.com) | [📞 +212 645-541142](tel:+212645541142) | [📍 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)
- Arabic (Fluent)

## Clubs and Organizations

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