Zakaria Ahrbil

Software Engineering Student | Full-Stack Developer

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Profile

Third-year Software Engineering student at ENSA Agadir, passionate about Full-Stack web development, with experience in designing web applications and implementing AI solutions. Currently seeking a final year internship, I aim to join a dynamic team to strengthen my technical skills and contribute to innovative, high-impact projects.

Education

- **Computer Engineering**
  National School of Applied Sciences | 2023 – 2026 | Agadir
  - Computer engineering education: software engineering, intelligent systems and networks.
  - Acquired skills in software development, system architecture, and technology project management
- **Integrated Preparatory Classes**
  National School of Applied Sciences | 2021 – 2023 | Agadir
- **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 & Graphic Design Intern**
  Mondial Berry | 06/2025 – 07/2025 | Agadir
  - Design and development of an Android application to digitize quality control (multi-step workflow, photo capture, automatic PDF report generation).
  - Complete redesign of the company website: new visual identity, modern, responsive, and animated interface.
  - *Technologies: React Native, Expo, Supabase, MySQL, NativeWind, Next.js, Tailwind CSS, Framer Motion, Figma, Vercel*
- **AI & Backend Developer Intern - Final Year Project**
  Stemos | 02/2025 – 05/2025 | Aït Melloul
  - Design and development of a local solution for automatic extraction of administrative data based on an AI pipeline (OCR + LLM).
  - Selection, integration and optimization of AI models (LLM, OCR), with prompt improvement and inter-module communication enhancement.
  - Development of the backend API (FastAPI) and front-end interface.
  - Implementation of the image processing pipeline (sharpness, contrast, resizing) with OpenCV and Real-ESRGAN.
  - *Technologies: Python, FastAPI, LlamaCpp, Next.js, PyTorch, OpenCV, Real-ESRGAN*

Projects

- **Agile Project Management Web Application**
  - Backend development for an Agile project management application: user stories, epics, sprints and tasks.
  - Implementation of secure authentication (JWT) and API documentation (Swagger).
  - *Technologies:* Spring Boot, JWT, MySQL, Swagger
- **School Management Web Application**
  - Development of a full-stack application for managing classes, schedules and teachers.
  - *Technologies:* Java, Next.js, MySQL
- **ENSAA Final Year Project Management Platform**
  - Design and implementation of a platform allowing the ENSA community to explore, submit and manage final year projects.
  - *Technologies:* Figma, Next.js, HTML, CSS, Git, GitHub, Vercel, Firebase

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 TP)
- 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