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, Supabase, PostgreSQL
— **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

Certifications

— **Oracle Certified Professional** - Java SE 17 Developer