

WIAM EL KHAMMAL

Full Stack Developer

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Recent graduate in Information Systems Engineering and Digital Transformation, with experience building full-stack applications. Skilled in process automation and creating user-friendly interfaces. Motivated to deliver impactful digital solutions using modern web and mobile technologies. Passionate about leveraging AI, data-driven approaches, and agile methodologies to solve complex problems and improve user experiences.

EDUCATION

- **Engineering's Degree – Information Systems and Digital Transformation – School of Information Sciences (ESI), Rabat**
From September 2022 to July 2025
- **Preparatory Classes – Mathematics, Physics, and Engineering Sciences – CPGE Ibn Taymiya, Marrakesh**
From September 2020 to July 2022

PROFESSIONAL EXPERIENCE

- **Full-Stack Developer Intern (6 months) – UM6P, Benguerir**
From February 2025 to July 2025
 - Developed a real-time academic networking platform using the MERN stack, including data validation, cleansing of user-generated data, and optimization of MongoDB queries to ensure data consistency and performance at scale.
 - Implemented features such as instant messaging and notifications via WebSocket, leveraging Redis for scalable session management.
 - Participated in Agile sprints, code reviews, and testing phases.
- **Full-Stack Developer Intern (2 months) – UM6P, Benguerir**
From July 2024 to September 2024
 - Developed a full-stack platform for reservation management and order tracking using Spring Boot and React.js.
 - Implemented a secure administration dashboard with Spring Security, a responsive interface using Ant Design/Tailwind CSS, and email alerts via SMTP.
 - Designed and integrated RESTful APIs to ensure seamless communication between the frontend and backend.
- **Web Developer Intern (1 month) – UM6P, Benguerir**
From July 2023 to August 2023
 - Developed a web application in PHP for departmental reservation management.
 - Designed resource planning features and improved usability based on user feedback.

PROJECTS

Alzheimer's Care Management Application Developed a mobile application for Alzheimer's patient management with medication reminders and caregiver tracking using React Native and Spring Boot.

Project Management Platform Developed a web application for project and task management with cloud notifications and real-time updates and Implemented backend logic for data validation, normalization, and integrity checks across APIs and database layers. using Next.js, TypeScript, Express.js, WebSockets, SMTP, and Azure.

Weather Application Developed a modern weather dashboard with city search, hourly/daily forecasts, and condition tracking using Next.js, Tailwind CSS, OpenWeather API, React Testing Library, and Jest.

Internship Tracking Application Desktop app for managing student internships: assignments, evaluations, and progress tracking using JavaFX .

Big Data Weather Prediction Project Big Data project to predict weather conditions using large datasets using PySpark, Data Analysis and Machine Learning .

Health Cardiology Chatbot AI-powered chatbot for cardiology guidance and health monitoring using Python, NLP and Machine Learning .

TECHNICAL SKILLS

Frontend HTML5, CSS3, Tailwind, Bootstrap, JavaScript, TypeScript, React.js, Vue.js, Next.js, Ant Design

Backend Java, JEE, Spring Boot, Spring Data, Spring MVC, Node.js, Express.js, Python

Concepts & Methodologies REST APIs, WebSocket, Microservices, Agile Scrum, CI/CD Pipelines, AI

Databases SQL, SQL Server, PostgreSQL, MongoDB, Firebase

AI & Data Machine Learning, PyTorch, Scikit-learn, Data Analysis

Cloud & Deployment MongoDB Atlas, Render, Netlify, Vercel, Supabase, Azure, Cloud Infrastructure

DevOps & CI/CD Docker, Maven, GitHub, CI/CD

Tools & IDEs Git, Jira, Figma, WordPress, Odoo, Power BI

Tests & Utils API JUnit, Cypress, Jest, Postman

LANGUAGES

Arabic Native

French Professional

English Professional