Elmehdi ELOUISSI

Sowftware Engineer

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Profile

A versatile Software Engineer with a solid foundation in backend development, mobile applications, and scalable system design. With a background in Engineering and Management of Information Systems, I bring full-stack experience across mobile, web, and cloud environments. Passionate about building robust, maintainable software that solves real-world problems.

Experience

Full Stack Developer   **Freelancer**   *11/2024 - Present*

- Designed and developed custom mobile applications and websites for clients across various domains.

- Built scalable and secure backend systems using Node.js, Express, and Firebase, ensuring fast API response times and robust data handling.

- Developed responsive and user-friendly frontends using Flutter and React.js, optimized for performance across mobile and web platforms.

- Applied UML modeling and system design principles to translate client needs into well-structured technical solutions.

Information System Intern, *(IT Equipement Management)*   **Mascara, Algeria**   *04/2024 - 04/2024*

- **Company**: CAISSE NATIONALE DES RETRAITES (CNR)

- Developed a web app solution for the IT Equipments Management that let the admin track all the IT equipment of the company.

- Used technologies: Node JS - Express JS - React JS - PostgreSQL

Information System Intern, *(Electronic Document Management)*   **Sidi Belabess, Algeria**   *01/2024 - 01/2024*

- **Company**: Schneider Electric

- Made the conception of an Electronic Document Management System for the Schneider Electric SEMAN SPA company from the Use cases diagram, the Activity diagram and the Class Diagram.

- Used technologies: UML ,BPMN

Projects

Pharmabot

- Developed a specialized pharmaceutical chatbot using a RAG and Knowledge Graph architecture to eliminate AI hallucinations and ensure data accuracy for pharmacists.

- Engineered the complete pipeline in Python, from data processing and Neo4j graph construction to deploying and evaluating large language models (Llama 3, Gemma 2).

- Demonstrated real-world application by launching the system as a mobile app and integrating it directly into the WASFA professional pharmacy software.

Quantify   *(Github Project)*

- A mobile application designed to help shop owners manage their clients efficiently.

- It allows users to store customer details, track visits, and generate daily ticket numbers for returning clients.

- Used technologies: Flutter - Dart - SQLite - Clean Architecture - Animations.

IT Equipment Management Web App   *(GitHub Project)*

- This Web app was developed for the CNR company to let the admin track all the IT Equipment inside the company.

- The app gives the admin a big angle of view of all the company's equipment with statistics and where they are.

- Used technologies: Node JS - Express JS - React JS - PostgreSQL

Online Courses & Certifications

- The Complete Flutter Development - [Udemy](#)

- Node.js, Express, MongoDB and More: The Complete Bootcamp - [Udemy](#)

- Python by Kaggle - [Kaggle](#)

- Docker Foundations Professional Certificate - [Linkedin](#)

Education

Master's and State Engineer's Degree in Management and Engineering of Information Systems

Ecole Nationale Polytechnique d'Oran - **ENPO**   **Oran**
Graduated: **2025**

- Focused on the intersection of software engineering, business processes, and information systems design.

- Relevant Coursework:

  - Software Engineering, Mobile App Development, Web Development
  - Information System Security, Computer Networks
  - Business Intelligence, Knowledge Management, Database Systems

- Developed multiple academic projects covering full-stack app development, system modeling (UML), and enterprise-grade architecture.

Skills

- **Mobile Development:** Flutter , Dart , Kotlin

- **Backend Development:** NodeJS , ExpressJS, NestJs Firebase, Supabase, MongoDB, PostgreSQL

- **Software:** VS Code , Android Studio ,Project (MSP), Adobe PhotoShop, Adobe Illustrator

- **Design:** Logo Design , Social Media Post design

- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

Languages

- **Arabic** [Native]
- **English** [Fluent]
- **French** [Fluent]