

Ahmed Raji

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EDUCATION

INSEA, Rabat — State Engineering Degree in Data and Software Engineering *Sept 2023 – Present*
FST Al Hoceima — DEUST in Mathematics, Computer Science, and Physics *Sept 2021 – 2023*
Honors: Very Good

PROFESSIONAL EXPERIENCE

Backend Developer – GhaythApp (On-site) *Aug 2025 – Oct 2025*

- Participated in the development and maintenance of a web platform using **Node.js** and **Express.js**.
- Implemented and automated **unit and integration tests** to ensure code quality.
- Developed new features: **online payment management**, enhanced **dashboard functionalities**.
- Contributed to **CI/CD automation** with GitHub Actions.
- Fixed bugs, optimized **MongoDB** queries, and improved backend performance.
- Collaborated with the team to ensure application **security** and **consistency**.

Data/AI Intern – 3D Smart Factory (Remote) *July 2025 – Aug 2025*

- Developed a configurable **3D preprocessing pipeline** (NIfTI format) using **YAML** for normalization, filtering, and volume preparation.
- Trained and evaluated a **3D UNet** model using **PyTorch**, including automatic metric computation.
- Contributed to **code optimization** and **dataset structuring** to improve experiment reproducibility.

TECHNICAL SKILLS

- **ERP/CRM:** odoo, espCRM
- **Backend Development:** Java (Spring Boot, JEE, Hibernate), Node.js (Express.js), PHP (Symfony), Python (Flask), C/C++ (Data Structures, Algorithms)
- **Databases:** PostgreSQL, MySQL, Oracle, MongoDB, Redis
- **Frontend Development:** HTML5, CSS3 (Bootstrap), JavaScript
- **Testing & Quality:** JUnit, Jest, Mocha, Unit and Integration Testing
- **CI/CD & DevOps:** Git, GitHub, GitHub Actions, Docker, Postman
- **Data Analysis & Statistics:** Python (NumPy, Pandas, Matplotlib), MATLAB, R, SPSS
- **Modeling:** UML (Class, Use Case, Sequence Diagrams), Merise (Conceptual, Logical, Physical)
- **Mathematical Foundations:** Inferential Statistics, Regression, Time Series, Linear Algebra, Probability, Optimization
- **Soft Skills:** Teamwork, Problem Solving, Adaptability, Analytical Thinking

PROJECTS

Real-Time Medical Record Analysis Platform

- Developed the backend using Spring Boot, Hibernate, and MySQL; implemented RESTful APIs and managed data persistence.
- Integrated Spring Kafka to trigger automatic alerts in case of anomalies.
- Implemented real-time notifications via WebSocket.
- Designed an MVC architecture and tested endpoints with Postman.
- Used Git/GitHub for version control and collaborative development.

Data Warehouse for Customer Review Analysis of Moroccan Bank Agencies

- Built a data warehouse using PostgreSQL to analyze customer feedback on Moroccan banks.
- Implemented ETL processes (Extract, Transform, Load) with DBT for automated data transformation.
- Used the Google Maps API to extract geolocated data from bank branches.
- Collaborated as a team to deliver data-driven insights and improve customer satisfaction.

Stock Management Web Application

- Developed a web application for stock management using **PHP** and **MySQL**, implementing complete **CRUD operations**.
- Designed a responsive and user-friendly interface with **HTML**, **CSS**, and **Bootstrap**.

LANGUAGES

Arabic (Native) · French (Upper-Intermediate B2) · English (Intermediate B1/B2)
