

## MOHAMMED EL IDRISSI LAOUKILI

Java Full Stack Developer | AI & Machine Learning Enthusiast

Morocco, Fes

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### PROFESSIONAL SUMMARY

Master's student in Advanced Machine Learning and Multimedia Intelligence with expertise in Java Full-Stack development, optimization, and problem-solving. Passionate about applying AI techniques, mathematical modeling, and software engineering to tackle real-world challenges in various domains, including scheduling, automation, and intelligent systems. Seeking an internship to leverage my skills in AI-driven solutions, optimization algorithms, and full-stack development.

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### EDUCATION

- **Master's student in Advanced Machine Learning and Multimedia Intelligence** – Université Sidi Mohamed Ben Abdellah (USMBA)
  - **Bachelor's Degree in Mathematical and Computer Sciences (SMI)** – Université Sidi Mohamed Ben Abdellah (USMBA)
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### TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, Python, PHP, C, C++

**Frameworks & Tools:** Spring Boot, CPLEX, Laravel 11, React.js, Next.js, Bootstrap, Material-UI, TailwindCSS, jQuery, AJAX

**Databases:** MySQL, SQL, PL/SQL

**Others:** Database design, design systems, Data Structures, Algorithms, Linux, Git/GitHub, UML, REST APIs, Microservices

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### PROJECTS

#### University Timetabling System (*Spring Boot, CPLEX, Integer Programming*)

- Developing an optimized university scheduling system based on integer programming.

#### Multi-Role Authentication System (*Spring Boot, React.js, Thymeleaf*)

- Implemented a secure role-based authentication system.
- Designed a React frontend integrated with a Spring Boot backend.

#### Image Processing with Python & Spring Boot (*AI, Image Processing*)

- Built an AI-powered image processing system using Python and Spring Boot.
- Developed algorithms for image enhancement and pattern recognition.

#### IT Support Ticket System (*Spring Boot, Spring Security, MySQL, React.js, Tailwind CSS*)

- Developed a web-based IT support system to manage employee IT issues efficiently.
- **User Roles, Permissions & Authentication:** Employees can create, view, update, and delete their tickets; IT Support can manage all tickets, add comments, and change ticket statuses.
- **Ticket Management:** Create, update, delete tickets with priority levels (Low, Medium, High) and categories (Network, Hardware, Software, Other).
- **Audit Log:** Track status changes and comments.
- **Search & Filter:** Search tickets by ID and status.

#### Categories Factory (*Spring Boot, MySQL, React.js*)

- Developed a system to create nested categories with thumbnails and full CRUD operations.

#### Packages Factory (*Spring Boot, MySQL, React.js*)

- Built a package creation system allowing users to generate packages based on existing products, ensuring each package contains at least two products with thumbnails and CRUD operations.

## University/School System Database Design

- Designed and implemented a comprehensive database schema for a school or university system, including the relationships between classes, teachers, groups, grades, and courses. The system supports efficient data management and seamless integration for scheduling, student enrollment, grading, and reporting.

## eCommerce Website (*Laravel 11, React.js, Inertia.js*)

- Built a full-featured platform with multi-role authentication, order management, and SEO optimization.
- Integrated messaging, nested categories, and customer review systems.

## Car Rental Web Application (Final Year Project) (*Laravel, Bootstrap, jQuery, MySQL*)

- Developed a dynamic car rental system with user-friendly features.
- Optimized search and reservation functionalities with AJAX-based real-time updates.

## Social Network Platform (*PHP, Bootstrap, MySQL*)

- Designed and implemented an interactive social media platform with messaging and user profiles.
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## Terminal Projects

*Developed a series of terminal-based projects using Java and CPLEX:*

- **Bin Packing:** Implemented bin packing algorithms for efficient item allocation.
  - **Simco Production:** Developed a model for simulating production systems.
  - **Traveling Salesman Problem:** Solved the classical optimization problem for route planning.
  - **Balls' Game:** Created a simulation of the balls' game with optimization techniques.
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## EXPERIENCE

### AI & Full-Stack Development Projects

- Developed various terminal-based applications using OOP and complex programming logic.
  - Worked on real-world problems involving AI, data analysis, and software development.
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## STRENGTHS

- **Problem-Solving:** Passionate about analyzing and optimizing complex problems.
  - **Collaboration:** Effective team player with strong communication skills.
  - **Adaptability:** Quick learner, able to adjust to new challenges and environments.
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## LANGUAGES

- **Arabic:** Native
  - **English:** Advanced/Fluent
  - **French:** Intermediate
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## WHAT I AM UP TO

Currently, I am developing a high-impact website project, aiming to establish it as a leading platform in its field. Check my portfolio for more details!