

# EL IDRISSE LAOUKILI MOHAMMED

Morocco, Fes

Contact: [elidrissilaoukili@gmail.com](mailto:elidrissilaoukili@gmail.com) | +212 7 67 19 45 00

Portfolio: <https://elidrissilaoukili.github.io>

LinkedIn: <https://linkedin.com/in/elidrissilaoukili>

GitHub: <https://github.com/elidrissilaoukili>

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## SUMMARY

Master's student in Advanced Machine Learning and Multimedia Intelligence with hands-on experience in Java Full-Stack development, optimization, and problem-solving. Passionate about applying AI techniques, mathematical modeling, and software engineering to solve real-world challenges in areas such as scheduling, automation, and intelligent systems. Currently seeking full-time roles in Software Engineering, Machine Learning, or Software Development. Skilled in Java, Spring Boot, and Python, with a strong interest in joining innovative teams in Morocco, Germany, or remote environments.

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## EDUCATION

- **Master 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

- **Backend:** Java, Spring Boot, Laravel 11, PHP
  - **Frontend:** JavaScript, Next.js, React.js, Bootstrap, Material-UI, Tailwind CSS, jQuery, AJAX
  - **Data Science & ML:** Python, OpenCV, Pandas, NumPy
  - **Languages:** Java, Python, C, C++
  - **Tools:** CPLEX, Git, GitHub, Docker
  - **Databases:** MySQL, SQL, PL/SQL
  - **Software Engineering:** UML, Database Design, System Design, Microservices
  - **Great Knowledge Of:** Data Structures, Algorithms, Linux
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## PROJECTS

### Optimization & AI Projects

- **University Timetabling System (*Spring Boot, CPLEX, Integer Programming*)**
  - Developed an optimized university scheduling system based on integer programming.
- **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.
- **Data Cleaning & Visualization (*Python, Power BI*)**
  - Cleaned and preprocessed large datasets using Python (Pandas, NumPy).
  - Created interactive dashboards in Power BI to visualize key insights.

### Authentication & Security Systems

- **Multi-Role Authentication System with Permissions (*Spring Boot, React.js / Thymeleaf*)**
  - Implemented a secure role-based authentication system.
  - Designed a React frontend integrated with a Spring Boot backend.

- **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 & Authentication: Employees manage their tickets, IT Support can handle all tickets.
  - Ticket Management: Categorized by priority (Low, Medium, High) and type (Network, Hardware, Software).
  - Audit Log: Tracks status changes and comments.
  - Search & Filter: Search tickets by ID and status.

### Full-Stack Web Applications

- **Clinic Appointment & Management System (*Spring Boot, Next.js, MySQL, Docker*)**
    - Developed a website for scheduling and managing clinic appointments.
    - Appointments & Messaging: Users can book appointments and communicate with the clinic.
    - Admin Panel: Full CRUD functionality for managing services.
    - User-Friendly Interface: Built with Next.js for seamless navigation.
  - **E-Commerce Website (*Laravel 11, React.js, Inertia.js*)**
    - Built a full-featured e-commerce platform with multi-role authentication.
    - Integrated messaging, nested categories, and customer reviews.
  - **Car Rental Web Application (PFE) (*Laravel, Bootstrap, jQuery, AJAX, MySQL*)**
    - Developed a dynamic car rental system with real-time search and reservation.
  - **Social Network Platform (*PHP, Bootstrap, jQuery, AJAX, MySQL*)**
    - Designed an interactive social media platform with messaging and user profiles.
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### DATABASE MODELING & DESIGN

- Designing a Comprehensive Database for a Timetabling System Based on an Integer Programming Article
  - Extending the Database to a Pro Version for a Timetabling System Based on Integer Programming
  - Designing a Scalable Database for an E-Commerce Platform
  - Designing a Comprehensive Database for an Authentication System with Permissions and Roles
  - University/School System Database Design
  - Designing a Scalable Database for a Car Rental System
  - Clinic Booking System Database Design
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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