

MOUAD EL BOUANANI

Full-Stack Engineering Student | Software Engineering

Rabat, Morocco

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PROFILE

Third-year Engineering student at the School of Information Sciences, specializing in Information Systems Engineering and Digital Transformation (ISITD). Solid practical experience in full-stack development, particularly through projects using Spring Boot, Node.js, Angular, and React. Passionate about technological innovation and cloud architectures, with expertise in Agile methodologies, DevOps, and SEO optimization.

EXPERIENCE

ProBioWell - E-commerce

August – September 2025

SEO & Digital Marketing Intern

Remote

- Conducted comprehensive SEO audit of WordPress/WooCommerce e-commerce site and identified critical technical issues (indexing, speed, structure).
- Optimized 10+ product pages with title/meta tag rewriting, URL restructuring, and image optimization.
- Resolved transactional email delivery issues through SMTP configuration (WP SMTP).

Office Chérifien des Phosphates (OCP)

July – August 2025

Full-Stack Development Intern

Ben Guerir, Morocco

- Developed a web application for managing weekend and holiday on-call duties for OCP industrial sites, integrating planning, automatic incident escalation, and multi-role JWT authentication.
- Designed a containerized MERN architecture (MongoDB, Express.js, React, Node.js) with Docker, including unit and integration testing (Swagger UI, Postman) and comprehensive technical documentation illustrated with UML diagrams.

École Normale Supérieure de Casablanca

July – September 2024

Web Development Intern

Casablanca, Morocco

- Developed and configured the ArchUH2 digital archiving platform for Hassan II University using DSpace 8.0.
- Collected and structured academic resources with metadata management according to international archiving standards.
- Customized the user interface (Angular) to reflect the university's visual identity and optimized PostgreSQL database performance.

EDUCATION

School of Information Sciences (ESI)

2023 – Present

Engineering Degree in Full Stack | Software Engineering – ISITD Specialization

Rabat, Morocco

Faculty of Sciences Semlalia

2021 – 2023

Associate Degree in Physical Sciences – Honors

Marrakech, Morocco

PROJECTS

Taawoniyate E-commerce Platform | Academic Project

2024-2025

- Developed an e-commerce platform for natural products from Moroccan cooperatives with mobile app (React Native).
- Applied Agile/Scrum methodology with weekly sprints and Git version control.

Technologies: Spring Boot, React Native, Angular, Docker

Full-Stack E-commerce Website | Personal Project

2024

- Created an e-commerce site with multi-role management (Customer, Supplier, Administrator), shopping cart, orders, and payment tracking.
- Developed secure JWT authentication with responsive interface and REST API integration.
- Optimized PostgreSQL database queries to improve performance by 40%.

Technologies: Spring Boot, Angular, PostgreSQL

Hospital Management Application | Academic Project

2024-2025

- Designed a desktop application for hospitalization management (patients, medical procedures, appointments).

- Used JavaFX to create an intuitive graphical interface supporting complete hospital workflow management.

Technologies: Spring Boot, JavaFX, MVC, PostgreSQL

Employee Management Application | Full-Stack Project | Academic Project 2024-2025

- Developed an employee management application in pairs, including creation, modification, and tracking of personnel records, with Agile methodology (Scrum) and UML design.
- Managed version control with Git and deployed the application in Docker containers, integrating CI/CD for portability and scalability.

Technologies: Java EE, Maven, Bootstrap, Jenkins, Docker

NutriTrack - Nutrition Tracking | Academic Project 2023-2024

- Developed a daily calorie tracking website with personalized meal and ingredient management.
- Implemented a nutritional recommendation system based on user objectives.

Technologies: Java EE, JSP/Servlets, PostgreSQL

Sliding Puzzle Game | Academic Project 2023-2024

- Designed and developed a sliding puzzle game in C using the SDL2 library (Simple DirectMedia Layer, version 2).
- Implemented the graphical interface, game logic, and tile movement management.

Technologies: C, SDL2

PROFESSIONAL CERTIFICATIONS

2024 - 2025

- **AWS Cloud Practitioner (CLF-C02)** - DataCamp | [Credential](#)
Cloud Fundamentals · AWS Core Services · Security & Compliance · Billing & Cost Management
- **AWS Cloud Technology and Services Concepts** - DataCamp | [Credential](#)
Compute Services · Storage & Databases · Networking & Content Delivery
- **AWS Security and Cost Management Concepts** - DataCamp | [Credential](#)
Security Skills · Cost Management · Overall AWS Skills
- **Agile Certification for Beginners** - Great Learning | [Credential](#)
Agile Principles · Scrum & Kanban Frameworks · Team Roles
- **Python for Data Science, AI & Development** - Coursera | [Credential](#)
Python Programming Fundamentals · Web Development · Data Science

TECHNICAL SKILLS

Languages: Java, JavaScript/TypeScript, Python, PHP, Kotlin, SQL, HTML/CSS

Frontend: React.js, Angular, Bootstrap, Tailwind CSS, JavaFX

Backend: Node.js/Express.js, Spring Boot, Laravel, Java EE

Mobile: Android (Kotlin), React Native

Databases: MongoDB, MySQL, PostgreSQL, Firebase, MongoDB Atlas

DevOps & Cloud: Docker, Jenkins, GitHub Actions, CI/CD, AWS (EC2, S3, RDS, IAM)

Tools: Git/GitHub, Swagger, Postman, UML, Agile/Scrum, Jira, Figma

SEO & Marketing: WordPress, WooCommerce, Google Analytics, Search Console, RankMath

SOFT SKILLS

Project Management: Agile/Scrum Methodology, Planning, Task Prioritization

Collaboration: Teamwork, Effective Communication, Conflict Resolution

Analysis: Analytical Thinking, Complex Problem Solving, Decision Making

Adaptability: Quick Learning, Flexibility, Change Management

LANGUAGES

Arabic: Native **French:** Intermediate (B2) **English:** Intermediate (B2)

COMMUNITY INVOLVEMENT

JCMP Morocco 2024 – Present

Active Member

National Initiatives

- Engagement in social and educational initiatives at the national level.
- Participation in community projects aimed at improving access to education.

JCMESI Club 2023 – Present

Active Member

School of Information Sciences

- Organization of academic events and digital awareness projects at ESI.
- Coordination of technical workshops for students on emerging technologies.