

# ABDERRAHMANE LAMAOUI

Software Engineer

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## PROFESSIONAL SUMMARY

Software engineer specializing in modern web development with NestJS and Next.js. I design and build secure REST APIs, manage relational databases with PostgreSQL, and implement complex authentication flows. My workflow relies on Docker for containerization and Git for version control, ensuring code quality and scalability in team projects.

## PROJECTS

### MEDBOOK - DOCTOR APPOINTMENT PLATFORM (TEAM OF 5)

*NestJS, React, Next.js, PostgreSQL, Docker, Prisma*

- Developed a full-stack healthcare platform for scheduling doctor appointments.
- Implemented a complete authentication system featuring JWT, 2FA, and Google OAuth.
- Designed RESTful APIs to handle user roles, doctor availability, and booking transactions.
- Structured the exact data model in PostgreSQL and managed schema migrations with Prisma.
- Configured Docker environments to ensure consistent deployment across all services.

### INCEPTION

*Docker, Docker Compose, NGINX, WordPress, MariaDB, Makefile*

- Configured a multi-service infrastructure running WordPress and MariaDB in isolated containers.
- Set up NGINX as a secure reverse proxy to manage incoming traffic.
- Created Makefiles to automate the build process and manage container networks.

### HTTP SERVER (WEBSERV)

*C/C++, Socket Programming*

- Programmed a compliant HTTP server in C++ using non-blocking I/O operations.
- Implemented an event loop (using poll/epoll) to handle multiple concurrent client connections.
- Integrated CGI support to execute scripts (PHP, Python) for dynamic response generation.

## SKILLS

Backend	Node.js, NestJS, REST APIs, JWT, 2FA
Frontend	Next.js, React, Tailwind CSS
Databases	PostgreSQL, Prisma ORM
DevOps	Docker, Docker Compose, Git
Languages	TypeScript/JavaScript, C/C++

## EDUCATION

### 1337 / UM6P - University Mohammed VI Polytechnic

Oct 2023 – Present

*Software Development*

Benguerir, Morocco

Key topics: Data Structures & Algorithms, OOP, Databases, Networking, Web Development.

## LANGUAGES

Arabic:	Native
English:	Professional
French:	Intermediate

## SOFT SKILLS

Communication
Team work
Creativity