Mortadha Houch Backend Developer

✉ mortahouch123@gmail.com   📞 +216 26 118 089   📍 Tunis, Tunisia

🔗 http://mortadha-houch.netlify.app   ⌂ https://github.com/MortadhaHouch

in linkedin.com/in/mortadha-houch

📇 Profile

Backend Developer specializing in scalable APIs and microservices using **Node.js, NestJS, Spring Boot, FastAPI, and C#**. Expert in database architecture with **PostgreSQL, MongoDB, MySQL, and Redis** for high-performance applications.

Good experience in **secure authentication systems** (JWT, Firebase Auth, Clerk) and **type-safe development** with TypeScript and Prisma ORM. Combines analytical engineering background with systematic approach to deliver enterprise-grade backend solutions for healthcare and business-critical applications.

🎓 Education

Full Stack software Development, *Coding Dojo*   12/2024 – 05/2025
                                                                          Ariana, Tunisia
Comprehensive full-stack development program covering modern web technologies and industry best practices Core Technologies Mastered:
- Frontend Development - React.js ecosystem with component-based architecture, state management, and responsive UI design
- Backend Development - **Node.js/Express.js** and **Python/Flask** for **RESTful API** development and server-side logic.
- Enterprise Frameworks - Angular for scalable web applications and **Spring Boot** for robust **Java**-based backend services
- Database Management - **MySQL** for relational database design, optimization, and complex query development.
- Full-Stack Integration - End-to-end application development with seamless frontend to backend communication

Thermal engineering and renewable energies,   09/2019 – 07/2022
                                                                          Tataouine, Tunisia
Higher institute of technological studies
Specialized in sustainable energy systems, thermodynamics, and energy efficiency optimization. Core Competencies Developed:
- Analytical Problem-Solving - Mastered systematic approaches to complex technical challenges and mathematical modeling. System Optimization - Applied thermodynamic principles to maximize efficiency and minimize resource waste
- Data Analysis - Interpreted technical measurements, performance metrics, and system behaviors
- Technical Documentation - Created detailed reports, specifications, and analysis documentation
- Project Coordination - Managed research projects with strict deadlines and technical requirements

🪪 Certificates

Backend development
Comprehensive backend development program focused on server-side technologies and API design
Core Technologies & Concepts:
- **Node.js & Express.js** - Built RESTful APIs with routing, middleware, and error handling.
- **Database Integration** - MongoDB with Mongoose for data modeling and CRUD operations
- **API Security** - Authentication, authorization, and data validation best practices.
- **Package Management** - NPM ecosystem, dependency management, and project structure.
- **Testing & Debugging** - API testing methodologies and debugging techniques.

🧠 Technical Skills

• Javascript	• Typescript	• Node JS	• REST API
• GraphQL	• Express JS	• Web Sockets	• Fastify JS
• Flask	• Java	• Spring boot	• MySQL
• Prisma ORM	• MongoDB	• Mongoose	• PosgtreSQL
• Nest JS	• Microservices	• Redis	• C#
• JWT	• Security	• Clerk	• OAuth
• Redis	• Nginx	• Docker	

🧠 Soft Skills

Problem Solving

Team Collaboration

Continuous Learning

🧠 hard Skills

Version Control & Team Collaboration (Git)

performance Optimization

🌐 Languages

- Arabic
- French
- English

💼 Tools

VS Code

Postman

Insomnia

Swagger

Pg Admin

MySQL Workbench

Xampp

MongoDB Compass

💼 Professional Experience

Full Stack Software Developer, *Hippomed AI*   05/2025 – Present
                                                                              Tunis, Tunisia
- **Architected scalable backend systems** using Python/Django and Spring Boot for healthcare data processing, implementing robust APIs that handle real-time patient monitoring and medical record management across multiple healthcare facilities
- **Designed and optimized complex database schemas** with PostgreSQL and MySQL, implementing efficient indexing strategies and query optimization for large-scale medical data, reducing database response times.
- **Built secure RESTful APIs** using Django REST Framework and Spring Boot, implementing JWT-based authentication and role-based access control for healthcare professionals, ensuring secure access to sensitive patient information
- **Implemented data integration pipelines** connecting multiple healthcare systems and medical devices, using Django ORM and Spring Data JPA for seamless data synchronization and real-time analytics

Full Stack Developer, *WowSoft*
- **Built high-performance APIs** using Node.js and Fastify framework with TypeScript, implementing efficient routing and middleware for business applications, achieving faster response times compared to traditional Express.js implementations
- **Designed type-safe database architecture** using Prisma ORM with PostgreSQL, creating normalized schemas for complex business logic and implementing efficient database queries with proper relationships and constraints
- **Implemented secure authentication systems** using JWT tokens with refresh token rotation, role-based access control, and password hashing, ensuring robust user session management and API endpoint protection
- **Developed data validation and error handling** using TypeScript interfaces and Prisma client type safety, implementing comprehensive input validation and custom error responses for improved API reliability
- **Optimized database performance** through Prisma query optimization, connection pooling, and efficient data fetching strategies, reducing query execution time and implementing proper database indexing for scalable applications