Mortadha Houch Backend Developer

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

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,

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

12/2024 - 05/2025 Ariana, Tunisia

09/2019 - 07/2022 Tataouine, Tunisia

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 • PosgtreSQL Mongoose • Nest JS Microservices • Redis • C# • JWT • Clerk • OAuth Security Redis • Nginx Docker

Soft Skills

Problem Solving

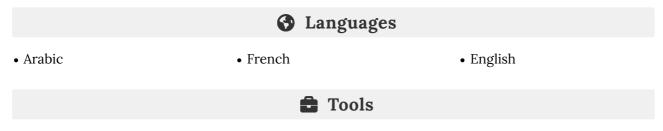
Team Collaboration

Continuous Learning

hard Skills

Version Control & Team Collaboration (Git)

performance Optimization



VS Code

Postman

Insomnia

Swagger

Pg Admin

Xampp

MongoDB Compass

Professional Experience

Full Stack Software Developer, Hippomed AI

- 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

05/2025 - Present Tunis, Tunisia