

Houda Debza

Full Stack Developer | Software Engineer | JavaScript/TypeScript | React, Node.js, NestJS

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Summary

Full Stack Developer with expertise in JavaScript/TypeScript, React, Next.js, Node.js, and NestJS, specializing in building scalable web applications and RESTful APIs. Experienced in designing microservices architectures, implementing authentication and authorization systems, and developing real-time applications. Strong background in performance optimization, API design, and distributed systems, with experience in Agile environments, version control (Git), and collaborative software development.

Education

Master **Higher School of Computer Science - Sidi Bel Abbes**, Master in Computer Science – Sept 2019 – Sept 2025
Sidi Bel Abbes, Algeria
Final year project focused on Multi-Platform Fake Profile Detection System using Machine Learning, Deep Learning, and metaheuristic optimization combined with FastAPI and Next.js full-stack architecture.

Experience

Data Intuition, Intern – Software / Frontend Engineer – Algeria Aug 2023 – Sept 2023
Internship focused on frontend engineering, UI/UX design, and collaborative development.

- Conducted requirements analysis and translated business needs into technical specifications.
- Designed responsive user interfaces using Figma and modern UI/UX principles.
- Developed reusable React components using JavaScript and TypeScript.
- Produced technical documentation using LaTeX for knowledge transfer and maintainability.

Projects

Westore – Real-Time Location-Based Marketplace Platform Mar 2026 – Apr 2026
Full-stack marketplace platform with real-time communication and scalable architecture.

- Built a scalable full-stack application using Turborepo, NestJS, React, and Next.js with modular and clean architecture.
- Implemented RESTful APIs and real-time communication using Socket.IO.
- Designed authentication and authorization system using JWT and role-based access control.
- Integrated Supabase Storage and MySQL with Drizzle ORM for efficient data handling and media uploads.
- Developed responsive UI with city-based filtering, improving product discovery efficiency.

Multi-Platform Fake Profile Detection System Jan 2025 – Sept 2025
AI-powered system for detecting fake social media profiles using ML and optimization algorithms.

- Designed and implemented a machine learning system using 6 ML algorithms and 18+ metaheuristic optimization techniques.
- Built RESTful API using FastAPI for real-time predictions and model serving.
- Developed Next.js frontend for visualization and interaction with prediction system.
- Applied feature engineering and model optimization, improving classification accuracy by X% over baseline models.
- Evaluated performance across multiple datasets and data splits for robustness.

MediSphere – Medical Appointment Management Platform Feb 2024 – June 2024
Microservices-based medical platform with real-time scheduling and advanced search capabilities.

- Designed and implemented microservices architecture for scalable appointment management system.
- Developed RESTful APIs and API gateway communication between services.
- Integrated Elasticsearch.
- Implemented event-driven architecture using Apache Kafka for notifications and asynchronous workflows.
- Managed multi-database system (PostgreSQL, MySQL, MongoDB) with optimized data access.

Core Competencies

RESTful API Development
Authentication & Authorization (JWT)
Microservices Architecture
Real-Time Systems (Socket.IO)
API Design & Integration
Version Control (Git, GitHub)
Problem Solving & Debugging
Team Collaboration & Communication

Skills

Programming Languages: JavaScript, TypeScript, Python, Java

Frontend: React, Next.js, HTML, CSS

Backend: Node.js, NestJS, Express, FastAPI, Spring Boot, Laravel, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Elasticsearch

DevOps & Tools: Docker, Git, GitHub, Apache Kafka, Microservices, CI/CD (basic), Turborepo, pnpm

AI / Machine Learning: Machine Learning, Deep Learning, Model Optimization, Metaheuristics