

Mohammad Houda

Tripoli, Lebanon | contact@mohammadhouda.dev | +961 76344842 | linkedin.com/in/mohammad-houda

github.com/mohammadhouda | www.mohammadhouda.dev

Summary

Backend-focused Software Engineer with hands-on experience building production-grade REST APIs, scalable multi-tenant platforms, and distributed systems. Strong expertise in Node.js, Express, PostgreSQL, Prisma, and Redis, with practical experience designing secure authentication flows, background job pipelines, and real-time features using Socket.io. Comfortable contributing across the full stack with Next.js, React, and TypeScript. Experienced in AI-assisted development, leveraging modern tools to accelerate delivery, improve code quality, and solve complex engineering problems efficiently. AWS Certified Cloud Practitioner with a solid foundation in performance and system reliability.

Education

Arab Open University, BS in Computer Science

Sept 2022 – Aug 2025

- GPA: 3.4/4.0

Experience

Backend Developer — ISHTARI GROUP

Aug 2025 – Apr 2026

- Built and maintained **30+ RESTful API endpoints** for product catalogs, filtering, and order features using **Node.js, Express.js, PHP, and PostgreSQL**, serving **thousands of products and sellers**
- Designed a **Price Scanner system** using **Node.js** and **Firebase Cloud Messaging (FCM)** to notify **15,000+ users in real time**, improving engagement and price awareness across thousands of products
- Optimized **SQL queries** handling **tens of thousands of records**, improving query performance and data consistency by more than 40%
- Collaborate closely with frontend, QA, and product teams to deliver stable, production-ready features under real deadlines, reducing deployment errors by **30%**

Frontend Intern (Remote) — AVH R&D

Aug 2024 – Nov 2024

- Developed and enhanced responsive UI components for a remote employee tracking system used by **50+ team members**, improving usability and day-to-day workflow efficiency using **React** and **Tailwind CSS**.
- Integrated **Firebase** for real-time data synchronization and authentication, enabling reliable live updates and secure user access across the platform.
- Collaborated in an **Agile team** through daily stand-ups, sprint planning, and cross-functional coordination to deliver features on schedule and align with business requirements.
- Improved development velocity by contributing to iterative feature releases, bug fixes, and UI optimizations that helped increase delivery speed by **15%**.

Projects

Humanitarian Aid Platform

Mar 2025 – May 2025

- Designed and built a full-stack multi-portal NGO platform using **Next.js, TypeScript, Tailwind CSS** (frontend) and **Node.js, Express, PostgreSQL, Prisma** (backend), supporting Admin, Charity, and Volunteer workflows under a unified role-based architecture.
- Engineered a scalable **personalized opportunity ranking system** using precomputed match scores, **BullMQ + Upstash Redis** background jobs, indexed database queries, and idempotent bulk upserts to maintain fast request-time performance as data grows.
- Implemented advanced security and session management with **JWT access/refresh tokens**, family-based token rotation, token reuse detection, HttpOnly cookies, rate limiting, account lockout, and audit logging.
- Developed real-time collaboration features with **Socket.io** chat rooms tied to the volunteer application lifecycle, plus integrations for **Supabase Storage** (file uploads) and **Resend** (transactional email).
- **Streamlined development cycles** by implementing **unit and integration tests** with **Jest**, leveraging **factory patterns and mock data** to simulate PostgreSQL/Prisma interactions and ensure robust cross-service communication.

Certificates

• AWS Cloud Practitioner	Jul 2025
• Semicolon Academy Bug Bounty Workshop	Jun 2025
• IBM Front-End Developer	Nov 2023

Skills

Frontend: React.js, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML, CSS

Backend: Node.js, Express.js, REST APIs, PostgreSQL, Prisma, Firebase

Tools & Cloud: Git, Docker, Postman, PM2, Supabase, Puppeteer, Jest, AWS (Cloud Practitioner Certified)

AI & Productivity: AI-Assisted Development, Prompt Engineering, Claude, ChatGPT, AI Code Review

Soft Skills: Agile Collaboration, Cross-functional Communication, Technical Documentation