Mohamed Farouk Hasnaoui

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Personal Profile

A **versatile**, **full-stack developer** with a background in **engineering**, experienced in building **secure, maintainable web solutions** from the database layer to deployment. Skilled in **Node.js**, **Express**, **React**, and **modern testing**, I have successfully delivered **end-to-end projects** that align with **real-world business needs**. Currently seeking **opportunities**—as a team member or **freelancer**—to contribute in **Ireland** or **remotely**.

Skills

Node.js - Express.js - Jest - RESTful APIs - PostgreSQL (SQL) - MongoDB (NoSQL) - HTML & Tailwind CSS - Javascript & Typescript - React - Git (version control) - OOP & SOLID Principles - Data structure & Algorithm - AWS S3, RDS, & EC2.

Experience

Freelancer - Web Developer   Oct 2024 - Present

- Mostaql

  - Built end-to-end websites for small-scale businesses, handling every stage from database design, backend development, and frontend implementation, through to final deployment.
  - Translated complex business requirements into practical, maintainable code, ensuring solutions aligned with client visions and objectives.

ERASMUS+ Engineering Research Project   Jul 2022 - Sep 2022

- University of the West of Scotland - Paisley, Scotland, UK

  - Developed an AI model to predict forces around a drone propellers.

Personal Projects

Patient Management System   Nov 2024 – Dec 2024

- **Link To Website**: patient-management-system-frontend.vercel.app/

  - Developed a secure, web-based platform enabling patients to register, verify via SMS-based OTP, and schedule appointments easily.
  - Implemented a modern stack (Next.js, Node.js, Express, PostgreSQL, AWS) and integrated Tailwind CSS and Jest for styling and testing.
  - Streamlined administrative oversight and improved the patient onboarding process, enhancing overall healthcare service delivery.

AlgoFork   Oct 2024 – Present

- **Link To FrontEnd**: algo-fork.vercel.app
- **Link To Backend**: github.com/EngenMe/AlgoForkAPI
- **Link To Data Structure & Algorithm Series**: github.com/EngenMe/AIeetCode-Mastery-Roadmap

  - Created a full-stack platform offering algorithmic coding challenges, serving as a free, interactive alternative to LeetCode.
  - Built with React, Node.js, Express, MongoDB/Mongoose, Vercel, Jest, and Tailwind CSS, focusing on

real-world problem-solving scenarios.

- Provided an engaging environment for skill development, helping users improve their coding proficiency and reasoning.

VidRent   Oct 2024

- **Link to the Repository**: github.com/EngenMe/VidRent

  - Built a RESTful API backend enabling management of video rentals, including customers, movies, and user authentication.
  - Implemented Node.js, Express, MongoDB/Mongoose, and Jest for test-driven development and reliable data operations.
  - Delivered a scalable, maintainable API supporting CRUD operations and role-based access control.

React Game Store   Sep 2024 – Oct 2024

- **Link to the Demo Website**: react-game-store-flame.vercel.app

  - Developed a frontend application showcasing a variety of games fetched from an external API.
  - Utilized React, Tailwind CSS, and deployed on Vercel to demonstrate state management, API integration, and responsive design.
  - Offered a modern UI for exploring and discovering games, reflecting contemporary frontend expertise.

POS Restaurant System   June 2024 – Aug 2024

- **Link to the Repository**: github.com/EngenMe/RestaurantPOSSystem.git

  - Implemented a full-featured POS system for restaurants, including reservations and user management.
  - Developed with C#, Windows Forms, and MSSQL, using an ER diagram-driven approach and ADO.NET.
  - Provided a comprehensive tool to streamline sales, reporting, and daily operations.

License Track System   May 2024 – June 2024

- **Link to the Repository**: github.com/EngenMe/LicenseTrack

  - Created a desktop application to manage driving licenses, tests, and user data efficiently.
  - Built with C# (3-tier architecture) and SQL Server, enforcing prerequisites and restrictions for test bookings.
  - Improved administrative handling of licensing procedures and enhanced data management.

Education

Master Degree in Mechanical Engineering, University of Biskra, Algeria   Sep 2018 – June 2020

Certificates

Node.js, Express, MongoDB & More: The Complete Bootcamp - Udemy   Oct 2024

The Ultimate TypeScript Course - Code With Mosh   Sep 2024

The Ultimate JavaScript Course - Code With Mosh   Sep 2024

The Ultimate HTML & CSS3 Series - Code With Mosh   Sep 2024

Problem Solving With C++, Backend with C#, and SQL - Programming Advices   Jan 2024 - June 2024