Mohamed Farouk Hasnaoui

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Personal Profile

A skilled full stack developer with expertise in building efficient backend services using Node.js and Express, and creating responsive frontend applications with React. Proficient in database management with MongoDB and SQL. Strong in problem-solving, data structures, and algorithms, with a passion for delivering clean, scalable code. Proven ability to work on real-world projects, from RESTful APIs to full stack platforms, applying best practices in software development.

Skills

- **Backend Development**: Build efficient, non-blocking Node.js services with Express, fully tested using Jest, and RESTful APIs documented with Swagger.
- **Database Management**: Proficient with MongoDB (NoSQL) and SQL Server (SQL).
- **Frontend Development**: Build responsive websites with HTML, Tailwind CSS, JavaScript, and React.
- **Version Control**: Experienced with Git for code management and collaboration.
- **Code Quality**: Apply OOP & SOLID principles for clean code architecture.
- **Debugging**: Strong ability to identify and fix issues in code. Problem Solving: Expertise in data structures and algorithms.
- **Design Tools**: Proficient with Inkscape for vector graphics and design.

Personal Projects

AlgoFork (Node.js, TypeScript, React.js, Express.js, RESTful APIs, HTML, Tailwind CSS) — 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

AlgoFork is a full stack, free alternative to LeetCode, providing coding challenges focused on algorithms and problem-solving. It emphasizes understanding real-world scenarios, helping developers solve problems and grasp the reasoning behind them. The platform will offer a fun, interactive learning experience to improve coding skills.

React Game Store (React, TypeScript, RESTful APIs, HTML, CSS) — Sep 2024 – Oct 2024
- **Link to the Demo Website**: react-game-store-flame.vercel.app

A dynamic website built with React, designed to showcase a variety of games by fetching data from an external API. The project demonstrates modern web development practices, including state management, API integration, and responsive design, making it an ideal platform for exploring and discovering games.

VidRent (Node.js, JavaScript, Express.js, RESTful APIs, MongoDB, Mongoose ODM, User Authentication, Unit and Integration Testing) — Jul 2024 – Sep 2024
- **Link to the Repository**: github.com/EngenMe/VidRent

A RESTful API Backend application built with Node.js and Express for managing movie rentals. It provides functionality to handle customers, movies, genres, rentals, and user authentication with full CRUD operations and role-based access control.

Static Website for selling Web Development Services (HTML, CSS) — Jul 2024 – Jul 2024
- **Link to the Demo Website**: engenme.netlify.app

The website is optimized for high performance with a 99% score in both performance and accessibility.

Experience

ERASMUS+ Engineering Project, University of the West of Scotland – Paisley, Scotland, UK   Jul 2022 – Sep 2022

- Built a machine learning model to predict aerodynamic forces around drone propellers.
- Utilized Python for web scraping, data organization, and analysis using Pandas.
- Developed a decision tree model with a prediction error of just 0.5
- Communicated complex technical concepts to team members with diverse engineering backgrounds.
- Adapted quickly to new technologies and methodologies in a dynamic work environment.
- Demonstrated effective teamwork and problem-solving skills in a high-pressure project setting.

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

First Aid, Health Service Executive   May 2024

Problem Solving With C++, C#, and SQL, Programming Advices   Jan 2024 - Apr 2024

EPIC Pre-Employment Training Programme, Business in the Community Ireland   Dec 2023

Languages

English - French - Arabic

Hobbies

Camping - Swimming - Volunteering (Birdwatch Ireland Member)