

Mohamed Farouk Hasnaoui

Swords, Co. Dublin | mohamdfarouk727@gmail.com | +353 89 948 5281 | [linkedin.com/in/engenme](https://www.linkedin.com/in/engenme)
github.com/EngenMe | engenme.com

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

- Mostaq
- 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:** carepulse.pro
- 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 Website:** algofork.com
- 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.

Open-Source Contributions

Bug Solved - Magic UI - An Open-Source with Over 12.7K stars on Github

Dec 2024

- Identified and fixed a rendering issue in the *react – icon – cloud* library by correcting JSON response handling and improving icon color fetching logic.
- Worked with TypeScript, Jest, and GitHub to implement the fix and validate functionality with comprehensive unit tests.
- Enhanced the user experience by ensuring correct icon colors and behavior in the interactive cloud component, earning the contribution's acceptance into the library's official codebase.

Feature Added - PyBEMT - A Python Open-Source Made by Associate Professors from University of Stavanger

Oct 2022

- Identified inaccuracies in PyBEMT results and implemented a 3D stall delay model to improve simulation precision.
- Utilized Python and aerodynamic modeling techniques to update the source code of a project developed by Associate Professors from the University of Stavanger.
- Achieved a 3% overall improvement in accuracy, enhancing the reliability of the open-source blade element

momentum theory tool.

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 |