

# 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](https://github.com/EngenMe) | [engenme.com](https://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](https://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](https://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.

|   |                      |
|---|----------------------|
| <b>VidRent</b>  | Oct 2024             |
| <ul style="list-style-type: none"> <li>• <b>Link to the Repository:</b> <a href="https://github.com/EngenMe/VidRent">github.com/EngenMe/VidRent</a></li> <li>• Built a RESTful API backend enabling management of video rentals, including customers, movies, and user authentication.</li> <li>• Implemented Node.js, Express, MongoDB/Mongoose, and Jest for test-driven development and reliable data operations.</li> <li>• Delivered a scalable, maintainable API supporting CRUD operations and role-based access control.</li> </ul>     |                      |
| <b>React Game Store</b>   | Sep 2024 – Oct 2024  |
| <ul style="list-style-type: none"> <li>• <b>Link to the Demo Website:</b> <a href="https://react-game-store-flame.vercel.app">react-game-store-flame.vercel.app</a></li> <li>• Developed a frontend application showcasing a variety of games fetched from an external API.</li> <li>• Utilized React, Tailwind CSS, and deployed on Vercel to demonstrate state management, API integration, and responsive design.</li> <li>• Offered a modern UI for exploring and discovering games, reflecting contemporary frontend expertise.</li> </ul> |                      |
| <b>POS Restaurant System</b>  | June 2024 – Aug 2024 |
| <ul style="list-style-type: none"> <li>• <b>Link to the Repository:</b> <a href="https://github.com/EngenMe/RestaurantPOSSystem.git">github.com/EngenMe/RestaurantPOSSystem.git</a></li> <li>• Implemented a full-featured POS system for restaurants, including reservations and user management.</li> <li>• Developed with C#, Windows Forms, and MSSQL, using an ER diagram-driven approach and ADO.NET.</li> <li>• Provided a comprehensive tool to streamline sales, reporting, and daily operations.</li> </ul>                           |                      |
| <b>License Track System</b>   | May 2024 – June 2024 |
| <ul style="list-style-type: none"> <li>• <b>Link to the Repository:</b> <a href="https://github.com/EngenMe/LicenseTrack">github.com/EngenMe/LicenseTrack</a></li> <li>• Created a desktop application to manage driving licenses, tests, and user data efficiently.</li> <li>• Built with C# (3-tier architecture) and SQL Server, enforcing prerequisites and restrictions for test bookings.</li> <li>• Improved administrative handling of licensing procedures and enhanced data management.</li> </ul>                                    |                      |
| <b>Education</b>  |                      |
| <b>Master Degree in Mechanical Engineering</b> , University of Biskra, Algeria  | Sep 2018 – June 2020 |
| <b>Certificates</b>   |                      |
| <b>Node.js, Express, MongoDB &amp; More: The Complete Bootcamp</b> - Udemy  | Oct 2024             |
| <b>The Ultimate TypeScript Course</b> - Code With Mosh  | Sep 2024             |
| <b>The Ultimate JavaScript Course</b> - Code With Mosh  | Sep 2024             |
| <b>The Ultimate HTML &amp; CSS3 Series</b> - Code With Mosh   | Sep 2024             |
| <b>Problem Solving With C++ , Backend with C#, and SQL</b> - Programming Advices  | Jan 2024 - June 2024 |