Mohamed Farouk Hasnaoui

Swords, Co. Dublin | mohamdfarouk727@gmail.com | +353 89 948 5281 | FaroukHasnaoui.tech

linkedin.com/in/engenme | github.com/EngenMe

Personal Profile

A **versatile**, **full-stack developer** with a background in **engineering**, 2 years of experience in building **hight performant** ,**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**.

Skills

- **Backend:** Node.js, Express.js, RESTful APIs, GraphQl, Go
- **Testing:** Jest
- **Databases:** PostgreSQL (SQL), MongoDB (NoSQL)
- **Frontend:** HTML & Tailwind CSS, Next js, Astro with React
- **Programming:** JavaScript & TypeScript, Python, C#, OOP & SOLID Principles, OOD, Data Structures & Algorithms
- **DevOps/Tools:** AWS (S3, RDS, EC2), Docker, CI/CD, Nginx, Linux, Git

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.
  - Build MVP's for small and large scale projects.
  - Translated complex business requirements into practical, maintainable code, ensuring solutions aligned with client visions and objectives.

Project based training - Mohammed Sweelam (Software Architect TechLead)   Apr 2025 - July 2025

- Developed an end-to-end microservice documentation system from scratch.
- Gained hands-on experience with Agile (Scrum) methodologies in a real-world development environment, and software architect.
- Strengthened soft skills by collaborating on business-driven workflows and technical requirements.

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

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.

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.

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 cloud component's icon colors and behavior, leading to its official inclusion in the library.

Feature Added - PyBEMT - Applying my engineering knowledge in open source code   Oct 2022

- Identified inaccuracies in PyBEMT results and implemented a 3D stall delay model to improve simulation precision.

Go-Gin Clean Starter   Oct 2022

- Optimize the boilerplate starter.
- Handle missing error handling.
- Implement refresh token for auth.

Education

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

Certificates

Fendamentals of Operating Systems - Hussein Nasser - Udemy   Apr 2025 - Present

Fendamentals of Network Engineering - Hussein Nasser - Udemy   Feb 2025 - Apr 2025

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

The Ultimate Javascript & TypeScript Course - Code With Mosh   Sep 2024

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