

Mohamed Karam Ali

Back End Developer (Node.js – Express.js)

Full stack Developer (MERN)

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Summary

Hello! I'm a backend developer and recent Computer Science graduate from Helwan University. I have a genuine love for solving problems, and I'm always on the lookout for solutions.

In addition to my academic background, I've honed my problem-solving skills by tackling challenges on platforms like LeetCode, where I've successfully solved various coding problems. This experience has not only deepened my understanding of algorithms but also sharpened my ability to find efficient solutions.

Beyond coding, I worked into the military, where I applied my skills to solve code issues and enhance JavaScript code. During this time, I played a key role in optimizing database functionality, making it more efficient and reliable.

In my recent freelancing stint over the past three months, I took charge of the backend development using Node.js. Every line of code I wrote was an opportunity to improve, resulting in a Rapid API that not only responds quickly but does so without a hitch.

I don't just see coding as a task; it's a means to overcome challenges and make things work seamlessly. Eager to bring this problem-solving passion and dedication to finding solutions to a dynamic team, I am excited about the prospect of contributing my skills to your company.

Experience



Back End Developer (Quiz API)

Freelance / Self-employed

May 2023 - Present (7 months)

As a backend freelance developer, I have successfully built a comprehensive API for Quizzies, university midterm exams, and final exams using Node.js and MongoDB. The API offers a wide range of functionalities to manage quizzes and exams effectively.

Using Node.js, I developed a scalable backend with the help of Express.js, a popular web framework. MongoDB was utilized as the database for storing and managing quiz and exam data. The API provides features such as question creation, retrieval, updating, and deletion. It also handles user submissions and grading, ensuring accurate evaluation.

Authentication and authorization mechanisms were implemented to guarantee secure access to quiz and exam resources. The API supports CRUD operations for question management, allowing administrators to create and maintain question banks. Users can submit answers, and the API calculates scores while providing valuable feedback.

Additional features such as randomizing question order, setting time limits, and generating reports for administrators were integrated. The API adheres to RESTful principles and offers a well-documented interface for seamless integration with frontend applications.

With a focus on code quality, I followed best practices, incorporated validation, error handling, and conducted thorough unit testing. The end result is a reliable and efficient API that delivers a smooth experience for both administrators and students participating in Quizzies, midterm exams, and final exams at universities.



Back End Developer

Military

Dec 2022 - Nov 2023 (1 year)

During my year of service in the army, I was actively involved in securing and improving the military system of the Border Patrol. My primary focus is on enhancing the database infrastructure and simplifying data retrieval processes. This role requires close attention to detail and that problems must be resolved promptly, ensuring that the military system operates smoothly and without interruption.

I remember that this system crashed for three days due to a problem that caused 5 developers to work without rest.

In addition to my work at the database, I played a vital role in the daily maintenance of this system. Whether troubleshooting code issues or implementing improvements, my goal was to maintain a high level of operational efficiency. This experience not only deepened my required experience, but also instilled in me a sense of responsibility and the ability to adapt. I always believe that I will adapt with difficult issues, no matter how great they are, and I will cope with patience and faith.



Back End Developer

Freelance / Self-employed

Sep 2023 - Oct 2023 (2 months)

Two months ago, two clients and I made a deal about building an ERP system and discussed some information about how the system works and how to emulate Odoo and MS businesses.

This system enriches you with great knowledge of relationship database and powerful functions.

I was ready with this system, the first task was to limit the number of users to restrict customers for payment, I solved this problem by collecting all the IP addresses of the devices online.

But unfortunately we stopped this system due to many problems and poor communication with the customer and I started to lose my passion.

Education



Helwan University Cairo

Bachelor of Science - BS, Physics and computer science

Sep 2018 - Jun 2022

Skills

- JavaScript / Node.js / TypeScript
- Express.js
- Microsoft SQL Server / MySQL / MongoDB
- Docker
- Socket.io
- Jest
- Postman
- GitHub
- Agile
- CI/CD
- Application Programming Interfaces (API)
- Data Structures & Algorithms
- React
- HTML & CSS
- Bootstarp