

Mohamed Tarek Abdallah

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Software Engineer
Full Stack Web Developer

Summary

I'm a software engineer who loves to learn and grow every day. I work on big projects that help me improve my skills and understand software development better. I pay close attention to each part of the Software Development Life Cycle (SDLC), making sure to check everything from planning and developing to testing and deployment.

I'm passionate about creating good software and enjoy solving problems that come up along the way. Working with others to find solutions is something I really value.

My goal is to keep getting better and become the best version of myself in my career and sharing knowledges with others and passionate working in a good teams!

Experience & projects

I'm currently not employed at a company, but I'm dedicating my time to working on significant projects that help me sharpen my skills.

• Full-Stack E-Commerce Web Application Oct 2023 - Aug 2024

Description: Developed a comprehensive e-commerce application that enables users to browse, search, and purchase products seamlessly.

Technologies Used: Node.js, Express, MongoDB, Reactjs, Reastfull API for the back-end and front-end development.

Features:

- User authentication and authorization to manage user accounts.
- Product listing with search and filtering capabilities.
- Shopping cart functionality allowing users to add, remove, and modify products.
- Payment integration for secure transactions.
- Admin dashboard for managing products, orders, and users.

Project Link: <https://github.com/mohamed66786/MERN-E-COMMERCE-APP>

• Full-Stack Real-Time Chat Application Nov 2023 - Mar 2024

Description: Designed and developed a real-time chat application that allows users to communicate instantly through text messaging.

Technologies Used: Built using **Node.js, Express, Socket.io, MongoDB, Reactjs, Reastfull API** for back-end and front-end integration.

Features:

- User authentication and registration for secure access.
- Real-time messaging with instant updates using WebSocket or Socket.io.
- One-on-one private chats as well as group chat functionality.
- Responsive UI for mobile and desktop users.

Project Link: <https://github.com/mohamed66786/MERN-Chat-App>

• [Driving Licence Management Desktop Application](#) Aug 2024-Present

Description: Currently developing a desktop application for managing driving licenses, designed to streamline processes for both users and administrators.

Technologies Used: Utilizing **C#** and **.NET Framework** for development, with **MSSQL Server** for database management.

Features:

- User-friendly interface focused on improving usability and efficiency for a smooth user experience (UX).
- Functionalities for registering, updating, and managing driving license data securely.
- Administrative features for overseeing and managing license records.

Database Design:

- Designed the database using an **ER diagram** to establish efficient relationships between tables.
- Applied **ACID properties** to ensure reliable transactions.
- Implemented **normalization** techniques to minimize data redundancy and optimize performance.

• [Problem-Solving Challenges](#) Jun 2023 - Present.

Description: Passionate about improving my problem-solving skills, consistently working on complex challenges.

LeetCode Experience: Solved over **1,000 problems** on LeetCode, covering a wide range of algorithms and data structures : <https://leetcode.com/u/mohamedtarek4545/>

Focus: Dedicated to refining my analytical thinking and developing efficient, optimized solutions to real-world coding problems and real-world software problems.

• [C++ Projects Development.](#)

Description: Developed multiple projects using **C++** as part of my learning journey, focusing on Object-Oriented Programming (OOP) design principles like:

- **Bank System:** Created a system for managing bank accounts.
- **Tic-Tac-Toe Game:** Built a console-based tic-tac-toe game.
- **Calculator:** Designed and implemented a basic calculator .

Courses

- Learn the basics of programming and software development online.
- Full Roadmap Courses of Dr/Mohamed Abu-Hadhud.
- MIT Courses about Data-structure and Algorithms and others.
- IT Free Courses and computer science foundations online.
- Learn From Youtube playlists, efficient full courses videos like free code camp and continue learning every day to improve my skills from others good resources.
- Compata A+ and Compata Network+ from youtube channel of Dr/Sameh Ramadan.

Education

- Bachelor Degree of Science Ain-Shams University in Cairo/Egypt 2021.

Skills

•C++	•Data Structure	•Algorithms	•OOP	•OOP Design
•Problem Solving	•Debugging	•JavaScript	•Nodejs	•Expressjs
•MSSQL Server	•MongoDB	•API	•RestFull API	•GraphQL
•CI/CD Pipeline	•AWS Basics	•Networking	•OS	•C#
•.Net Framework	•HTML	•CSS	•Reactjs	•Testing Basics
•Design Patterns	•API Testing	•SOLID Principles	•Nextjs	•TypeScript

Languages

- English : Professional proficiency.
- Arabic: Native proficiency.
- German: Basics proficiency.