Mohamed Tarek Abdallah

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Software Engineer

Summary

I am a **fresher software engineer** seeking my **first full-time role** to apply and grow my skills. With hands-on experience in large-scale projects,I've developed expertise across the **Software Development Life Cycle (SDLC)**. I enjoy solving complex problems, collaborating with teams, and continuously improving. My goal is to contribute to dynamic teams while growing professionally in a challenging environment.

Experiences / projects

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

Built a full-stack E-commerce app using Node.js, Express, MongoDB, and React, featuring user authentication, product search, shopping cart, and payment integration with features like:

- Implemented secure user authentication and authorization for account management.
- Developed product listing with advanced search and filtering features.
- Integrated shopping cart functionality for adding, removing, and modifying products.
- Enabled secure payment processing through payment gateway integration.
- Built an admin dashboard to manage products, orders, and user accounts efficiently.
- **Project Source Code**

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

Developed a real-time chat application enabling instant text communication, featuring private and group chats with real-time updates. Built with Node.js, Express, Socket.io, MongoDB, and React, integrating the front-end and back-end using RESTful APIs with features like:

- Secure user authentication and registration system.
- Real-time messaging with instant updates via WebSocket or Socket.io.
- Responsive user interface optimized for both mobile and desktop devices.
- **Project Source Code**

- ### Driving Licence Management Desktop Application   Aug 2024-Present

Currently developing a desktop application for managing driving licenses, aimed at streamlining processes for users and administrators. Built with C# and .NET Framework, and powered by MSSQL Server for database management all that with leader Dr/ Abu-Hadhoud with features like:
- Intuitive user interface focused on enhancing usability and efficiency.
- Secure functionalities for registering, updating, and managing driving license data.
- Administrative tools for managing and overseeing license records.

Database Design:
- Created an efficient database structure using ER diagrams.
- Applied ACID principles to ensure reliable transactions.
- Implemented normalization to reduce redundancy and optimize performance.
- **Project Source Code**

• Problem-Solving Challenges Jun 2023 - Present.

Passionate about improving my problem-solving skills, consistently working on complex challenges. Solved over **1,000 problems** on [LeetCode](), covering a wide range of algorithms and data structures. Dedicated to refining my analytical thinking and developing efficient, optimized solutions to real-world coding problems and real-world software problems.

• C++ Projects Development.

Developed multiple projects using **C++** as part of my learning journey, focusing on Object-Oriented Programming (OOP) design principles like:
- **Bank System**: Developed a comprehensive system for managing bank accounts and transactions.
- **Tic-Tac-Toe Game**: Created a console-based, interactive tic-tac-toe game.
- **Calculator**: Designed and implemented a functional, basic calculator with core arithmetic operations.

Courses

- Completed a course in E-commerce business, gaining expertise in key strategies, tools, and platforms for building and managing online stores, with a focus on dropshipping and Shopify
- Learn the basics of programming and software development online and from best youtube channels.
- Full Roadmap Courses of Dr/Mohamed Abu-Hadhud.
- MIT Courses about Data-structure and Algorithms and others.
- IT Free Courses and computer science foundations and software engineer online.

Education

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

Skills

- **Languages & Frameworks**: C++, C#, JavaScript, TypeScript, .NET Framework, Node.js, Express.js, Next.js, React.js, HTML, CSS

- **Software Development**: Object-Oriented Programming (OOP), OOP Design, SOLID Principles, Design Patterns, API Development (RESTful, GraphQL)

- **Databases**:MSSQL Server, MongoDB, PostgreSQL.

- **DevOps & Cloud**: Cloud (Basics), CI/CD Pipelines, AWS (Basics)

- **System Knowledge**: Operating Systems (OS), Networking, Debugging

- **Problem Solving**: Algorithms, Data Structures, Problem Solving (LeetCode), API Testing, Testing Basics.

Languages

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