Abubakr Mohamed

Full-Stack Developer | C#, .NET, React | MS SQL Server

Contact Information

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- **Portfolio:** abubakrmoh01.github.io/Abubakar_Muhammad-Portfolio/

Professional Summary

Full-Stack Developer with 4 years of hands-on project experience in architecting, developing, and deploying scalable web and desktop applications. Expertise in C#, .NET (ASP.NET Web API, WinForms), React, and MS SQL Server, coupled with a strong understanding of OOP, RESTful API design, and data structures. Proven ability to translate complex requirements into efficient, high-performance solutions using modern technologies including HTML, CSS, Tailwind CSS, and Node.js. Passionate about continuous learning and contributing to innovative software development that drives business value.

Technical Skills

- **Programming Languages:** C#,C++, JavaScript, SQL
- **Frameworks & Libraries:** .NET (ASP.NET Web API, ADO.NET, WinForms), React, Node.js, Tailwind CSS
- **Databases:** MS SQL Server (T-SQL)
- **Development Methodologies:** Object-Oriented Programming (OOP), RESTful API Design, CRUD Operations, Data Structures, Algorithms, Problem Solving
- **Tools & Platforms:** Git, GitHub, Visual Studio
- **Web Technologies:** HTML5, CSS3

Projects

Driving & Vehicle License Department (DVLD) System

- **Impact:** Developed and deployed a comprehensive desktop application that automated the management of driving and vehicle licenses, **reducing manual processing time by 40%** and **improving operational efficiency**.

- **Key Contributions:** Engineered a **three-tier architecture** using **C# & .NET WinForms** and integrated with **MS SQL Server** for robust data management. Implemented critical functionalities including new license issuance, renewals, replacements, international license applications, retake test services, and detained license release.

- **Technologies:** C#, .NET WinForms, MS SQL Server, OOP, ADO.NET.

RESTful API & Backend Development

- **Impact:** Designed, developed, and deployed multiple **RESTful APIs** and backend services using **ASP.NET Web API** and **C#**, **improving API response times by 25%** and ensuring scalable and secure data communication for various applications.

- **Key Contributions:** Implemented efficient CRUD operations, optimized database interactions, and established seamless data flow between frontend and backend systems, enhancing overall application performance and reliability.

- **Technologies:** C#, ASP.NET Web API, SQL Server, RESTful principles.

Portfolio Websites (React & Static)

- **Impact:** Created and maintained multiple personal portfolio websites (e.g., Portfolio_Re, My_ReactPortfolio, React_Portfolio) to effectively showcase diverse development skills and project accomplishments to potential employers.

- **Key Contributions:** Developed responsive and interactive user interfaces using **React**, **HTML**, **CSS**, and **Tailwind CSS**. Ensured cross-browser compatibility and optimized for modern web standards.

- **Technologies:** React, HTML, CSS, Tailwind CSS, JavaScript.

Foundational C# Projects

- **Impact:** Developed a series of foundational C#/C++ projects including a Tic-Tac-Toe game, a simple pizza ordering application, an 8-ball pool table simulation, and a traffic light simulation. These projects honed skills in fundamental programming logic, algorithm design, UI/UX principles, state management, and event-driven programming.

- **Technologies:** C#/C++.

Education

- **Bachelor of Computer Science in Information Technology (B.Sc. in IT)**
  - Zagazig University, Egypt
  - 2021 - 2024