Fajar Shahzad

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SKILLS

Programming:	Proficient in C++, JavaScript, C#, and Python with a solid understanding of data structures, algorithms, and object-oriented programming (OOP). Experienced in building scalable, maintainable applications and skilled in full-stack web development, covering both front-end and back-end technologies.
Web Development:	Expert in HTML, CSS, and React.js, with a strong ability to create interactive, dynamic websites. Skilled in designing responsive, user-centric interfaces that ensure seamless functionality and an optimal user experience.
Data Structures and Algorithms:	Strong understanding of fundamental data structures (linked lists, stacks, queues, trees) and algorithms (sorting, searching), with proficiency in applying them to optimize performance and solve complex problems efficiently.
Database Management:	Proficient in MongoDB and SQL Server, with experience in data management, schema design, and optimizing queries for performance and integrity.
Object-Oriented Programming:	Strong understanding of Object-Oriented Programming (OOP) principles, including encapsulation, inheritance, polymorphism, and abstraction, with extensive hands-on experience in implementing these concepts in C#
Strong Management and Communication:	Proficient in management, and have strong communication skills. I can manage the events and pursue the people very well.

PROJECTS

E-Commerce Store:	Developed a robust and scalable e-commerce platform with multi-user support, including distinct roles and permissions for customers, vendors, and administrators. Implemented features such as secure user authentication, product management, order processing, and payment integration, ensuring an intuitive and seamless shopping experience for diverse user types.
Asteroid Game:	Developed a robust and scalable game on console in my first semester for hands-on practice on C++. A completely console-based game with strong concepts. Provide an interactive interface to the game user.
Service Nest Business Application	Developed a business application for a clock management using C# WinForms, applying all major Object-Oriented Programming (OOP) concepts. Features include inventory management, customer management, and sales tracking.
LMS:	Developed a comprehensive Learning Management System (LMS) using C# WinForms and SQL Server, supporting course management, student enrollment, grade tracking, and real-time reporting with user-friendly interfaces for seamless academic administration.
Concepta:	Developed the Concepta garments e-commerce platform using C#, HTML, CSS, and JavaScript, with a focus on creating an intuitive, responsive user interface. Integrated features such as dynamic product filtering, sorting, and secure user authentication to enhance the shopping experience.
Crypto-Yard:	Developed a secure cryptocurrency website using HTML, CSS, React.js, and C#, incorporating OOP principles, encryption, secure authentication, real-time data visualization, and scalable database management for optimal performance and user experience. A real-time database application that mainly focuses on the crypto trading currencies and the trading of stocks. SQL is used for efficient data retrieval and storage.
Secure-File-Share:	Developed a Secure File Sharing System with user authentication, file encryption/decryption, and access control, ensuring safe transfer of sensitive data. Integrated virus scanning and implemented role-based permissions for enhanced security.

Cosmic-DB:	Designed and developed a custom in-memory database from scratch, implementing core database functionalities such as schema design, CRUD operations, indexing, query execution, and data persistence, and optimized it for offline-first applications with fast retrieval and efficient memory usage.
Namaz-Timing-App:	Built a mobile/web application that provides daily prayer times (Fajr, Dhuhr, Asr, Maghrib, Isha) for any city and country globally. Integrated real-time APIs, geolocation services, and time zone adjustments to ensure accurate results. Designed a clean, user-friendly interface for accessibility.

ACHIEVEMENTS

Student Coaching Experience   2023-Current
- Experienced coach in computer science, teaching programming languages like C, C++, C#, and Python, and mentoring students in core concepts, problem-solving, and best practices.

Position Holder in HSSC 2021   2021
- Got 1096 marks in Matric and got a Position in the overall Board.

Director Marketing at MLSA UET Lahore
- Got selected as a strong marketing member for Microsoft Learn Student Ambassador (MLSA) UET Lahore

Social Media Team Lead at GDGoC Uet Lahore
- Got selected as the social media team's chair and lead for Google Developers Groups On Campus (GDGoC) UET Lahore

EDUCATION & LEARNING

Bachelor of Science in Computer Science   2023-Current
University of Engineering and Technology (UET), Lahore
• Semester: 4th   • CGPA: 3.781

INTERMEDIATE: 2021-2023
Superior Group of Colleges, Lahore
• Score: 987/1100   • Discipline: ICS(Physics)

Matriculation: 2019-2021
Science Foundation High School, Gujranwala
• Score: 1096/1100   • Discipline: Biology