Arsalan Khalid

Computer Engineer

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EDUCATION

FAST National University of Computer and Emerging Sciences **Lahore**

BS in Computer Engineering,(GPA: 3.44) *Graduation Date: June 2024*

- Awards: Dean's List of Honors

- Courses: Data Structures and Algorithms, Fundamentals of Databases, Object Oriented Programming (OOP), Data Science, Applied Machine Learning, Operating Systems

WORK EXPERIENCE

Mastermind Communication **Lahore**

Software Engineer Intern *June 2023 – August 2023*

- Gained practical experience in development using HTML, CSS, and JavaScript, leading to improved technical skills and project completion efficiency.
- Created projects such as a portfolio, a to-do list, a drum kit, and the Simon game.
- Performed rigorous testing and debugging of web applications to ensure seamless functionality and an exceptional user experience.

PROJECTS

Smart Health watch (FYP) :
- Collaborated with a team to develop a React Native Android application aimed at ensuring the safety of individuals.
- Established a secure cloud infrastructure for long term trend analysis, empowering proactive health management.
- Integrated sensors including MLX90614, MPU6050 and MAX3010 with micro-controller ESP-32 mini.

Airplane Management Web Application:
- Built a web application using ASP.NET and MS SQL SERVER for managing airplane operations.
- Implemented role-based logins for admins and staff, facilitating flight booking, ticket booking, and visitor management.

Library Management and Book Delivery System:
- Developed a C++ project utilizing Binary Search Tree, Hashtable, and Graph for managing book data, customer information, and map generation.
- Implemented Dijkstra's Algorithm for calculating the shortest path between the library and customer's address, improving delivery efficiency.

Store: Link
- Developed a dynamic store application using the MERN stack with full CRUD functionality (Create, Read, Update, Delete) to efficiently manage inventory items.
- Implemented RESTful APIs with Node.js and Express for seamless data handling and integrated MongoDB for scalable and fast database operations.

To-Do List Page: Link
- Developed a dynamic to-do list page using HTML, JavaScript, and CSS.
- Allows users to add, edit, and delete tasks.
- Features a clean and intuitive interface for efficient task management.

SKILLS & INTERESTS

- **Programming Languages**: JavaScript, Python, C/C++, SQL
- **Web Development**: HTML, CSS
- **Android Development**: React Native
- **Databases**: MS SQL Server
- **Data Analysis**: EDA, Machine Learning, Deep Neural Networks, Data Preprocessing