

Rimsha Sarfraz

SOFTWARE ENGINEER (Faisalabad, Pakistan)

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Education

Computer Science (BS)

FAST-NUCES

2021 - 2025

Personal Summary

As passionate Software Engineer, I build adaptable, high-performance applications with a seamless user experience. Skilled in frontend and backend development, I collaborate on design decisions and ensure timely, high-quality software delivery. Engaged in Agile development, I enhance performance, tackle challenges, and drive innovation with emerging technologies.

Technical Skills

Programming Languages: JavaScript, Typescript, Python, HTML5, C/C++

Technologies: React.js, Node.js, React native

Database: SQL, PostgreSQL, MySQL, MongoDB, Firebase

Soft Skills: Collaboration, Leadership, Excellent verbal Communication, Problem Solving, Adaptability, Time Management

Work Experience

Freelancing, Online work

since 2023

Projects

App Based Cultivation for Naives – ZARISA Farm Fertilizers (Final Year Project)

On Track

Cultivation For Naives is a smart farming platform that helps farmers manage cultivation, weather forecasts, expert consultations, and marketplace needs. It provides early warning alerts and yield forecasting for better farm management.

Technologies used: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Weather API, and Payment Gateway.

Artificial Intelligence – Sudoku Puzzle Solving using A Algorithm and Backtracking

Developed an efficient solution for solving Sudoku puzzles by implementing a combination of the **A* algorithm** and backtracking, showcasing expertise in algorithm design and problem-solving techniques.

Web Development - Tour management System

I have hands-on experience in web development, demonstrated through my semester project of creating a Tour Management System. This project involved designing and implementing a web application using **Node.js, HTML, CSS, and JavaScript**. I developed features such as user authentication, booking management, and tour itinerary planning, showcasing my proficiency in full-stack web development.

Database project - Event Management System

I completed a Database Management semester project where I designed and implemented an **Event Management System** using SQL. I created a database schema for events, venues, attendees, and organizers, incorporating features like event scheduling, attendee registration, and reporting. This project enhanced my skills in **normalization, indexing, and query optimization**, ensuring an efficient and well-structured database system.

Data Structure Project -Cricbuzz

I developed a **Cricbuzz-like app** as a Data Structures project, implementing arrays, linked lists, hash tables, and graphs to manage cricket match data. The project featured real-time score updates, search and sort functionalities, and efficient data retrieval, showcasing my ability to apply data structures to real-world applications.

GAMES - 1)Posion Explosion game 2)Space Battleship Game

Extra Curricular Activities

FAST Photography Society | Vice President (FAST-NUCES)

September 2021 – February 2025

Led a dynamic team to organize impactful photography events, fostering creativity and teamwork.

Managing ICIT 2023_24 coverage,Daira_23,Daira_24

Certificates & Courses

Git: Become an Expert in Git & GitHub
CSS, JavaScript, and Python Complete
Best Photography Head

Udemy
Udemy
Dramatic Society_FAST