Asad Raza
Computer Scientist

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Profile

Computer Scientists with hands-on experience, skilled in designing and implementing **scalable** and **efficient software solutions**. Proficient in **Python, C, C++, and C#**, with a strong focus on writing **optimized**, **maintainable**, and **performance-driven code.** Recognized for **problem-solving skills** and expertise in **data structures, algorithms**, and **UML design**. Passionate about **exploring cutting-edge technologies** and delivering high-quality solutions tailored to client needs.

Education

FAST National University of Computer & Emerging Science, B.S Computer Science		Aug 2022 – Sep 2026
Paras Science Collage Kandiaro Sindh, F. Sc in Pre-Engineering		Aug 2020 – Mar 2022

Relevant Courses: Programming Fundamentals, Object-Oriented Programming, Data Structures and Algorithms, Database Systems, Operating Systems, Software Design and Analysis, Computer Networks, Artificial Intelligence, App Development, Compiler Construction

Skills

- **Web Development:** HTML, CSS, JavaScript, Node.js, MySQL, Oracle, SQLite, MVC Architecture

- **Desktop App Development:** C++, C, C#, Windows Form, .NET

- **Android Development:** Java, SQLite, Firebase, Google API, REST API

- **Tools:** Git, GitHub, Visual Studio, VS Code, PyCharm, Wireshark, Linux Ubuntu, Cisco, Jupiter Notebook, Google Collab, Figma, Visio

Academic Projects (github.com/AsadAnalyst)

Success Grammatic Dictionary (Lead Backend Developer) (GitHub)   **OOP, Data Structure, C++**
The Success Grammatic Dictionary utilizes a Trie Tree and Array data structures for efficient word storage and retrieval. The Trie Tree enables fast searching, making it ideal for dictionary applications.

WhatsApp Clone (Lead Frontend Developer) (GitHub)   **WebRTC, Node.js, HTML, CSS**

Developed a Secure WhatsApp Clone using WebRTC, enabling direct communication without a centralized server. Implemented end-to-end encryption, text and Voice messaging, file sharing for enhanced privacy and real-time communication.

Flex management System (Lead backend Developer) (GitHub)   **OOPs, C++, File Handling**

The System operates all functionalities like FAST-NUCES Flex Academic Portal

Gym Analysis and Tracking (Analyst) (GitHub)   **R language, Google Collab, Analysis, Kaggle**
Gym Analysis and Tracking is a project developed using only R language, focusing on analyzing gym activities and tracking performance metrics. It leverages data visualization and statistical techniques to provide actionable insights for fitness enthusiasts and trainers

E-commerce Application (SRS and SRDD Designer) (GitHub)   **UML Diagrams, Visio, Design Patterns**
Developed E-commerce, an AI-driven e-commerce platform with dynamic pricing, real-time inventory tracking, and personalized product recommendations.

Task Manager App (Lead Frontend/ backend Developer) (GitHub)   **Java, SQLite, Volley API Quotes**
A personal productivity Android app that allows users to manage daily tasks with ease. Features include task creation with title, description, due date, and priority, all stored in a local SQLite database. Users can update or delete tasks using a clean UI

Award & Honor

IBA University	*Silver Medal In Physics Science Exhibition*	*2021 2021*
BISE -Nawabshah	*2'nd Position in Nawabshah Division (Intermediate and Secondary)*	*2022 Education*

Selected Blogs (medium.com/AsadAnalyst)

Assembly Language x8086 Snake Game: A Step-by-Step Guide (Blog Link)

These Words Make it Obvious that your text is written by AI (Blog Link)

Hobbies and Interests

- Problem Solving   • Cricket   • Travelling   • Exploring new technologies