

# Asad Raza

Computer Scientist

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## Professional Summary

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, Software Engineering, Computer Networks, Artificial Intelligence, App Development, Compiler Construction

## Skills

**Web Development:** HTML, CSS, JavaScript, MySQL, MVC Architecture

**Desktop App Development:** C++, C, C#, Assemble (NASM), Windows Form, .NET, Oracle DB

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

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

## Selected Projects ([github.com/AsadAnalyst](https://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](#)) **OOP, 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 project developed using 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

**BISE -Nawabshah** **2'nd Position in Nawabshah Division (Intermediate and Secondary)** 2022 Education

## Selected Blogs ([medium.com/AsadAnalyst](https://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