# Iqra

Final-year Computer Science undergraduate with strong skills in full-stack web development using .NET MVC, covering both frontend and backend. Particularly strong in relational database design and SQL, with a solid command of algorithms, software testing and most major programming languages. Brings nearly five years of teaching experience, which has built clear communication, patience and a habit of explaining complex ideas simply.

## EXPERIENCE

**Home Tutor**, Karachi — **Self-Employed**
2021 – Present

- Teaching students of both Sindh Board and Federal Board for almost five years.
- Plan lessons, prepare notes and conduct regular tests to track each student's progress.
- Explain difficult concepts in simple terms, adapting to each student's pace.
- Prepare students for board exams and keep parents updated on their progress.

## ACADEMIC PROJECTS

**Software Quality Assurance Testing** — SQA (Elective)
Performed professional-level testing on my own project: wrote a test plan and test cases, executed functional testing, and logged and tracked defects.

**Personal Diary Management System** — Data Structures
Console-based diary manager built with arrays, linked lists and hash maps, with sorting to organize entries.

**Smart Disaster Response & Resource Allocation System** — Database Systems
Relational database for managing disasters, resources and their allocation, with a normalized schema, joins, stored procedures and triggers.

**Music Streaming Player Database** — Database Systems
Database for a music streaming platform covering users, songs, artists and playlists, with keys, constraints and SQL queries.

**E-Commerce Product Search Engine** — Design & Analysis of Algorithms (C)
Product search engine in C that sorts products using Merge Sort and Quick Sort, comparing their time complexity and performance.

**Interactive Sorting in Assembly** — Computer Organization & Assembly
Interactive program that takes user input and sorts it using low-level assembly instructions.

**Unit Converter** — Object-Oriented Programming
OOP-based converter for weight, temperature, length and currency built with classes and objects.

## EDUCATION

**Iqra University**, Karachi — **Bachelor of Science in Computer Science**
2023 – Present (Final Year)

**Khatoon-e-Pakistan Girls College**, Karachi — **Intermediate, Pre-Medical**
2021 – 2023

**Howard Grammar School**, Karachi — **Matriculation**
2021

Karachi, Pakistan
iqra88372@gmail.com
linkedin.com/in/iqra-sattar-78a47143a

## AREAS OF EXPERTISE

- **Full-Stack Development** – .NET MVC for both frontend and backend, server-side logic and application workflows.
- **Database Design** – SQL Server and MySQL schema design, normalization and query optimization.
- **Interactive UI** – Responsive frontend interfaces with HTML, CSS, JavaScript and Bootstrap.
- **Algorithms & Problem Solving** – Strong grasp of data structures and efficient algorithm design.
- **Software Quality Assurance** – Test planning, test case design, functional testing and bug reporting.
- **Version Control** – Git and GitHub for branching, code reviews and team collaboration.

## SKILLS

.NET (MVC)
C#
Java
C / C++
Python
SQL Server / MySQL
HTML & CSS
JavaScript
Bootstrap
Assembly Language
Software Testing / SQA
Git / GitHub
Teaching & Communication