

# Muhammad Inshal

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## SUMMARY

Motivated Computer Science student at FAST-NUCES with a solid grasp of programming and a love for building things. Always looking to improve problem-solving skills by practicing on LeetCode. Enjoys helping others by sharing useful notes and coding resources on GitHub, including JavaScript, HTML, and Python. Excited to work on meaningful projects and turn ideas into real solutions.

## EDUCATION

**FAST-NUCES, Faisalabad**

**07/2022 - 06/2026**

*Bachelor of Science in Computer Science*

**Coursework:** Data Structures, Algorithm Analysis, Databases, Operating Systems, Computer Networking

## ACHIEVEMENTS

**Solved 150+ Data Structures and Algorithms problems on LeetCode**, demonstrating consistent problem-solving and logical thinking skills.

## PROJECTS

### 24 Puzzle Game — C++

- Developed a console-based 24 Puzzle Game in C++ using Visual Studio 2022.
- Implemented file handling to save and resume game progress.
- Shuffled tiles, handled user input for moves, and checked for winning condition.
- Focused on clean structure using functions, arrays, loops, and conditions.

### Hospital Management System — C#, Oracle

- Developed modules for patient registration with **OTP**, scheduling, and staff management.
- Integrated role-based access for patients, doctors, nurses, and admins.
- Implemented secure login and **session management**.
- Used **Parameterized SQL** and stored procedures for database operations.

### Data Breach Checker — Node.js, Express, MongoDB, HTML, CSS, JS

- Developed a web application to check if passwords have been exposed in data breaches.
- Implemented **Knuth-Morris-Pratt (KMP)** for efficient string matching for password matching from database.
- Used MongoDB to store and query breach data efficiently.
- Built with Node.js/Express.js backend and HTML/CSS/JavaScript frontend.
- Dataset generated of 700 users+ from **Mockaroo**.

### My Portfolio Website — HTML, CSS, JavaScript

- A personal website designed to showcase my skills, projects, and experience as a web developer.
- Fully responsive layout with mobile-friendly navigation and flexible grid system.
- Structured sections including About, Skills, Education, Projects, and Contact.
- Built using HTML5, CSS3 (Flexbox, Grid, Media Queries), JavaScript (ES6+).

## SKILLS

Languages	JavaScript, Python, SQL, C++, C#, HTML, CSS, Bash
Tools/Tech	Node.js, Express.js, MongoDB, MySQL, Oracle Database, Ubuntu, Git, GitHub, VS Code, Figma
Design Patterns	Singleton, Adapter, Observer

## INTERESTS

Reading, Table Football