

Zaryab Mustafa

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Professional Summary

Detail-oriented Computer Science undergraduate (6th semester) at Forman Christian College (CGPA: 3.28), with strong theoretical and practical foundations in core computing subjects. Experienced in academic instruction, software prototyping, and building applications using Python and modern tools. Passionate about Artificial Intelligence, Data Analytics, and systems design.

Technical Skills

Languages: Python, SQL, Java, C, HTML, JavaScript

Libraries/Tools: Streamlit, SQLAlchemy, Alembic, scikit-learn, Pygame

Concepts: Machine Learning, Natural Language Processing, Operating Systems, Computer Networks, Distributed Systems, OOP, Data Structures

Languages: English (Fluent)

Experience

IT Instructor & Assistant Programmer

Daadras Foundation NGO | Dec 2024 - Feb 2025

- Developed a student data tracking tool using Streamlit and SQLAlchemy
- Conducted training sessions in digital literacy and introductory programming
- Helped automate student progress reporting for internal use

Computer Science Instructor (Freelance)

Self-Employed | Sep 2020 - Present

- Taught 20+ students core CS subjects: Computer Networks, Operating Systems, Parallel & Distributed Computing, Artificial Intelligence, Expert Systems, and Emerging Technologies
- Designed conceptual learning plans for academic excellence and competitive exams
- Mentored students through personalized guidance, practicals, and theory integration

Education

BS in Computer Science

Forman Christian College (A Chartered University), Lahore

2020 - Present | 6th Semester | CGPA: 3.28

F.Sc. Pre-Engineering

BISE Lahore

Projects

Student Data Tracker (Streamlit + SQLAlchemy)

- Built a CRUD web tool for managing student profiles and progress reports
- Used Alembic for version-controlled schema updates and data integrity

Catch the Apple - Arcade Game (Pygame)

- Developed a beginner-friendly game to simulate collision detection and score tracking
- Practiced modular game design using Python's event-driven programming

ATS Resume Ranking System (In Progress)

- Building a machine learning-based system to rank resumes based on job description match
- Implements TF-IDF vectorization and cosine similarity to assess relevance