Shermeen Ziauddin

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Objective

I am a motivated Computer Science undergraduate with keen interests in data analysis, artificial intelligence, and software development. Seeking opportunities to work on real-world projects that challenge me to sharpen my skills, contribute meaningfully, and grow professionally in a collaborative tech environment.

Education

Bachelor of Science in Computer Science
FAST-NUCES University, National Highway, Karachi, Pakistan
August 2022 - June 2026
CGPA: 3.75

Projects

Connect4 Game | Artificial Intelligence

Python, Pygame, AI Heuristics

Modified the classic Connect4 game by adding time constraints, a hint system, and a scoreboard to enhance user engagement and gameplay strategy.

Restaurant Management System | C++

Advanced Data Structures, File Handling

Developed a console-based system for restaurant order handling, billing, and menu updates using object-oriented programming.

Hotel Room Management System | HTML, PL/SQL, Selenium

Designed a web-based room booking and management platform; integrated Selenium for testing and used JIRA for agile development and backlog tracking.

Reader-Writer Synchronization | Ubuntu, C

Simulated concurrency control using semaphores to handle multiple read/write processes, showcasing a deep understanding of OS-level synchronization.

Turing Machine Simulator | C++
Built a simulator to process fundamental state transitions based on computational theory concepts. Implemented tape navigation and transition rules for different input strings.

DNS Tracing Tool | Python
Created a command-line tool to simulate DNS queries, trace domain resolution steps, and analyze DNS records for network troubleshooting.

Technical Skills

Programming Languages:

Proficient: C, C++, Python (NumPy, Pandas), MySQL, R

Intermediate: PHP, MongoDB

Basic: HTML, Java

Tools & Applications: VS Code, MongoDB Compass, SQL Developer, Ubuntu, JIRA, Selenium, Microsoft Project, Logic Works, Data Modeler, Papyrus, Oracle Database, Cisco Networking, Wireshark

Soft Skills

- Applied problem-solving to debug systems and optimize code in academic projects.

- Excelled in teamwork during collaborative projects using Agile tools like JIRA.

- Maintained clear communication in team tasks, reports, and peer reviews.

- Delivered academic presentations, building confidence in public speaking.

Extracurricular Activities

• Participated in Procom's Speed Programming Competition.

• Competed in ACM Coders' Cup 2024.

• Participated in Developer's Day Sync OS Challenge 2024.

• Competed in an SQL Data Retrieval competition 2024.

Certifications

- Python for Data Analysis (Intro to Intermediate) – DataCamp, Apr 2025
- SQL for Data Analysis (Intro to Intermediate) – DataCamp, June 2025
- Data Manipulation with Pandas – DataCamp, Apr 2025
- Introduction to Java – DataCamp, May 2025
- Understanding Data Science – DataCamp, Apr 2025
- Understanding Machine Learning – DataCamp, Apr 2025
- Supervised Learning with scikit-learn – DataCamp, Apr 2025