

Sadaqat Ali Shaker

Final-Year Computer Science Undergraduate (2022–2026)

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Professional Summary

Final-year Computer Science student with strong hands-on experience in operating systems, computer networks, databases, and backend development. Comfortable in Linux environments, client–server systems, database-driven applications, and .NET desktop development. Currently expanding expertise in Big Data engineering and applied AI through academic projects and certifications.

Technical Skills

Languages: C, C++, C#, Python, Bash, Assembly (NASM)

Databases: MySQL, PostgreSQL, Oracle (hands-on), SQLite, MongoDB, Neo4j

Systems: Linux, process management, multithreading, shell automation, client–server architecture

Networking: TCP/IP, DNS, RIP, OSPF, EIGRP, Wireshark, Cisco Packet Tracer

Big Data: Hadoop (HDFS concepts, hands-on labs), Apache Airflow (DAGs), Spark (learning + practice)

Tools: Git/GitHub, VMware, Visual Studio, DOSBox, LaTeX

Highlighted Projects

Final Year Project (Ongoing): AI-based Tree Detection & Counting from LiDAR Point Clouds

- Building an end-to-end pipeline for tree segmentation and counting using point cloud preprocessing and clustering methods.
- Planning structured storage of tree attributes (height, crown size, coordinates) for querying and monitoring.

Attendance Management System (Python + MySQL)

- Built a database-driven student attendance system with relational schema design and CRUD workflows.
- Worked hands-on with SQL querying and database concepts (also practiced Oracle and PostgreSQL).

End-to-End Client–Server System (Operating Systems)

- Implemented socket-based client–server communication and applied OS concepts (process handling and synchronization).

CPU Scheduling Simulator

- Implemented FCFS, SJF, Priority Scheduling, and Round Robin; compared waiting and turnaround time metrics.

Information Security Implementations + SQL Injection Study

- Implemented SDES, AES, and Caesar cipher; analyzed protocol behavior and security concepts.
- Performed SQL injection testing and documented mitigation insights.

Networking Labs (Packet Tracer + Wireshark)

- Designed LAN topologies and configured RIP, OSPF, and EIGRP; validated behavior using traffic capture and analysis.

.NET Desktop Applications

- Built desktop applications using C# and .NET (WinForms) with database integration concepts.

Certifications & Programs

- Supervised Machine Learning (Regression & Classification) — DeepLearning.AI, Stanford University (Coursera)
- C# for .NET Developers — Board Infinity
- Introduction to .NET Core — Board Infinity
- Getting Started with Git and GitHub — IBM (Coursera)
- Python for Everybody — University of Michigan (Coursera)
- Aspire Leaders Program — Stage 2 Certified (Aspire Institute)

Education

BS Computer Science — FAST NUCES (2022–2026)