

Maheer Sheikh

Plano, TX • 469-777-0645 • maheersheikh@gmail.com • [LinkedIn](#)

Professional Summary

Computer Science graduate from the University of Texas at Dallas with a broad technical foundation and proven experience building real-world systems using Python, C++, SQL, and Unix-based tools. Skilled in writing logic-based programs, debugging systems, processing structured data, and creating reliable software from scratch. Adaptable and detail-oriented, with a passion for solving problems across domains from backend logic to process simulation.

Technical Skills

Python • C++ • SQL • Bash • Unix/Linux • Git • Debugging • Testing • Threads • Semaphores • Command-Line Tools • Version Control • Data Structures & Algorithms • Technical Communication • Structured System Design

Education

University of Texas at Dallas, Richardson, TX
Bachelor of Science in Computer Science, 2025

Collin County Community College, Plano, TX
Associate of Science in Computer Science & Information Technology, 2023

Projects

BitEx Tracker: Backend Simulation Platform

Built a transaction management system simulating crypto trading with SQL integration. Focused on data consistency, live calculations, and backend flow accuracy.

SimuCore: Operating System Process Simulator

Designed and implemented a multithreaded simulation of CPU scheduling using semaphores, pipes, and threads. Focused on concurrency safety and OS-level behavior modeling.

SMS Classification Tool

Constructed a data pipeline to process, clean, and classify SMS messages using structured steps. Emphasized input validation, modularity, and consistent prediction results.

AutoScheduler: Logic-Based Assignment Engine

Developed a scheduling system for assigning roles without conflict. Included rule enforcement, structured CLI input, and reliable task distribution logic.

De-ID Engine: Secure Data Redaction Tool

Created a Python script to identify and redact personally identifiable information in clinical text using regex. Focused on data privacy, predictable output, and format integrity.

FlightOpt: Route Optimization System

Engineered a graph-based path planner with backtracking and scheduling strategy comparisons. Applied algorithmic thinking and modular constraint logic.

Professional Experience

Best Buy, Frisco, TX

Advisor • 2024 – Present

- Provided technical guidance on product setup and system troubleshooting.
- Assisted users in resolving hardware/software issues and interpreting system behavior.
- Maintained POS system integrity and customer support efficiency.

IACC, Plano, TX

Teacher • 2020 – 2023

- Delivered programming lessons with a focus on logic and problem-solving.
- Simplified complex topics for diverse student backgrounds.
- Provided technical mentorship and structured project guidance.

CVS Pharmacy, Allen, TX

Store Associate • 2021 – 2022

- Ensured backend system accuracy in POS and inventory operations.
- Reported and assisted in resolving technical issues during transactions.

IACC, Plano, TX

Team Lead • 2019 – 2020

- Organized workflows and scheduled technical events.
 - Delegated tasks and solved real-time logistical problems using structured planning.
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Involvement

- 132+ Hours Volunteer Work
- Peer Mentor for Incoming Juniors