

# Rehan Shafiq

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## Education

Bachelor of Science

COMSATS University Islamabad

Sahiwal, Pakistan

Feb 2024 - present

- Major in Software Engineering

3.49/4.00 CGPA

## Skills

- Programming:** JAVA, Python, SQL, HTML, CSS
- Frameworks/Tools:** JavaFX, JDBC
- Databases:** PostgreSQL, MySQL
- Version Control:** Git, GitHub
- Systems:** Linux, Command Line
- Soft Skills:** Event Management, Team Collaboration, Problem Solving

## Projects

### HealZone - Smart Healthcare Appointment Platform | [GitHub](#)

*Transforming healthcare accessibility through digital innovation*

- Impact:** Eliminated hospital waiting queues for appointment booking, potentially serving 500+ patients daily with instant scheduling capability
- Technical Stack:** Developed using Java/JavaFX with PostgreSQL backend, featuring role-based dashboards, OTP authentication, and prescription management for dual user types (patients & doctors)
- Technical Achievement:** Designed 15+ interconnected GUI forms with seamless database synchronization, handling complex relational data across multiple user roles
- Architecture & Security:** Applied object-oriented design patterns, modular architecture, and secure authentication protocols for healthcare data protection

### Enterprise Banking Simulation System | [GitHub](#)

*Demonstrating secure financial software development principles*

- Scope:** Created production-ready banking application handling complete transaction lifecycle from account creation to fund management
- User Experience:** Achieved seamless console-based interaction with intuitive menu system, error handling, and real-time balance updates
- Database Integration:** Designed robust PostgreSQL database with proper normalization, ensuring data integrity and supporting concurrent banking operations
- Professional Standards:** Applied clean code methodology, object-oriented design patterns, and modular architecture principles used in real banking software

## Volunteering Experience

Management Team Member | Notion Society, CUI

- Organized university events for 300+ students, developing leadership and project coordination skills

## Achievement and Certifications

### CS50: Introduction to Computer Science and the Art of Programming-2025

- Received on completion of CS50x, including ten problem sets, and one final project. Awarded from Cambridge, Massachusetts

### Crash Course on Python | Google-2025

- Mastered Python fundamentals including syntax, data structures, and basic programming concepts

### Programming in Python | Meta-2025

- Advanced Python skills covering OOP, libraries, testing frameworks (TDD/pytest), and software development practices

### Introduction to Networking | nVIDIA-2025

- Gained foundational knowledge of network protocols, internet infrastructure, and data transmission systems

### Problem Solving (Basic) | HackerRank-2025