

Ali Rehman

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EDUCATION

Rutgers University

New Brunswick, NJ

Bachelor of Science in Computer Science

Dec 2025

GPA: 3.62 | **Dean's List** (5 of 6 Sem)

Key Coursework: Algorithms, Computer Architecture, Computer Security, Data Science, Data Structures, Discrete Mathematics, Internet Technology, Intro to AI, Machine Learning Principles, Software Methodology, Systems Programming

EXPERIENCE

North Brunswick Pharmacy

North Brunswick, NJ

IT Support Specialist

Jan 2024 – Present

- Contributed to the design and development of the pharmacy's website using HTML, CSS, and JavaScript.
- Troubleshoot and resolve 20+ monthly hardware/software issues, including register systems, label printers, and connectivity.
- Advise on technology driven process improvements, applying CS knowledge to streamline operations in a real world small business setting.

USACS

Rutgers University

Club Member

Sept 2022 – Present

- Engaged in weekly coding challenges, technical workshops, and university hackathons to deepen programming and problem solving skills.

PROJECTS

Music Platform Relational Database

May 2025

- Designed a comprehensive relational database simulating the backend of a music streaming service.
- Collaboratively implemented a normalized relational database with 12+ schema tables for multiple categories using SQL with primary/foreign keys, and normalization techniques to eliminate redundancy.
- **Tools:** ER diagrams, Git, MySQL, Python

My Shell

Apr 2025

- Programmed a custom shell from scratch in C to deepen knowledge of systems programming and process control.
- Supported core functionalities such as command parsing and execution, I/O redirection, background process management, and signal handling.
- Demonstrated strong understanding of low-level OS mechanisms including forks, pipes, and file descriptors.
- **Tools:** C, GCC, GDB, Git

Stream and Feistel Ciphers

Feb-Mar 2025

- Developed a secure Linux-based messaging platform inspired by cryptography coursework.
- Implemented Stream and Feistel ciphers using custom designed encryption rounds, incorporating Java bitwise operations, modular arithmetic, and secure key handling.
- Added user authentication features to protect message access and ensure data confidentiality.
- **Tools:** Git, Java, JUnit, Linux

Photo Album App

Mar-Apr 2024

- Built a full-stack Android photo album app with support for 50+ album/photo entries and fast auto-complete search.
- Implemented core features including album creation, photo tagging, search with auto-complete, and local persistent storage using object serialization.
- **Tools:** Android Studio, Git, Java, SQLite, XML layouts.

TECHNICAL SKILLS

- **Languages:** C language, C++, CSS, HTML, Java, JavaScript, MATLAB, Python, R, SQL
- **Tools:** Android Studio, Eclipse, Git, Jupyter Notebooks, Linux, MatLab, Microsoft Office Suite, VS Code
- **Concepts:** Agile Development, Algorithms, Data Structures, Object Oriented Programming, Software Deployment
- **Soft Skills:** Strong problem-solving skills, attention to detail, teamwork, leadership, adaptability

ADDITIONAL DETAILS

Languages Spoken: English, Urdu, Hindi, Turkish