

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

EXPERIENCE

North Brunswick Pharmacy

North Brunswick, NJ

IT Support Specialist

Jan 2024 – Present

- Troubleshoot and resolve hardware/software issues, including register systems, label printers, and connectivity tools.
- 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

Stream and Feistel Ciphers – Java, Linux

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 bitwise operations, modular arithmetic, and secure key handling.
- Added user authentication features to protect message access and ensure data confidentiality.

Photo Album App – Java, Android Studio

Mar-Apr 2024

- Built a fully functional Android photo album app emphasizing full-stack mobile design.
- Implemented core features including album creation, photo tagging, search with auto-complete, and local persistent storage using object serialization.

My Shell – C language

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.

Music Platform Relational Database – Python, MySQL

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.

TECHNICAL SKILLS

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

ADDITIONAL DETAILS

Languages Spoken: English, Urdu, Hindi, Turkish