

Ali Rehman

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EDUCATION

Rutgers University

New Brunswick, NJ

Bachelor of Science in Computer Science

Dec 2025

GPA: 3.617 | Dean's List (5 of 6 Sem)

- **Relevant Coursework:** Design & Analysis of Algorithms, Software Methodology, Systems Programming, Computer Security, Discrete Mathematics I&II, Data Structures, Computer Architecture, IT and Informatics, Internet Technology, Data Science

TECHNICAL SKILLS

- **Languages:** JavaScript, SQL, React, Java, Java FX, C, C++, Python, R, HTML
- **Tools:** Eclipse, VS Code, Linux, Git, MatLab, Jupyter Notebooks, Android Studio, MS Office
- **Concepts:** Object-Oriented Programming, Agile Development, Data Structures, Algorithms

PROJECTS

Stream and Feistel Ciphers – Java, Linux

- Expanding on my security certification, I created a linux-based messaging platform with additional login access security features.
- Designed secure message transformation using key-based encryption rounds. Focused on bitwise operations, modular arithmetic, and data integrity.

Android Album App – Java, Android Studio

- Created this project to strengthen Android mobile development, focusing on full-stack user interaction.
- Developed a mobile photo album app with full Android UI while implementing album creation, tagging, search with auto-complete, and persistent storage using object serialization.

My Shell – C language

- Built this project to deepen understanding of Unix system-level programming and process management.
- Developed a Unix-like shell in C supporting command execution, I/O redirection, and background processes.

Music Platform Relational Database – Python, MySQL

- Designed to simulate the backend infrastructure 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.

LEADERSHIP/JOB EXPERIENCE

USACS

Rutgers University

Member

Sept 2022 – Present

- Participated in weekly coding challenges, tech talks, and university hackathons

Rutgers Office of Residence Life

New Brunswick, NJ

Resident Assistant

Jan 2025 – Present

- Built a community for 40-50 residents by organizing events and resolving conflicts.
- Worked with staff to enforce policies and manage crises, showcasing leadership and adaptability.

ADDITIONAL DETAILS

Languages Spoken: English, Urdu, Hindi, Turkish