

Ayesha Chaudhry

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Education

The College of New Jersey, Ewing NJ

Sept 2021 – May 2025

BS in Computer Science

- GPA: 3.4/4.0
- **Coursework:** CS II, Database Systems, Computer Architecture, Software Engineering, Computer Networking

Work/ Professional Experience

Student Technician

Ewing, NJ

Media & Technology Support Services

May 2022 – Present

- Investigated hardware problems on campus IT equipment.

Software Engineering Intern

Bentonville, AK

Walmart Global Tech

June 2024 – Aug 2024

- Developed backend services with Java, Spring Boot, SQL and Kafka to automate database updates for Walmart FDS, handling store events like closures and reopenings, eliminating manual intervention and streamlining processes for the FDS team
- Collaborated with teams to improve system performance and customer experience.

Software Engineering Peer Mentor

Ewing, NJ

The College of New Jersey

Jan 2024 – Present

- Mentored students in using GitHub, taught key software engineering concepts, and streamlined their project integration by resolving bugs and merging contributions efficiently.

Student Researcher

Ewing, NJ

TCNJ Wayfindings Systems Lab

Sep 2023 – Sep 2024

- Developing an Android app utilizing BLE for indoor wayfinding, incorporating SQLite, pathfinding algorithms, and audio-based UI.

MUSE Student Researcher

Ewing, NJ

Mentored Undergraduate Summer Research

Jun 2023 – Aug 2023

- Conducted molecular simulations using HPC in Python and TCL with a multidisciplinary research team. Leveraged Jupyter Notebook and MATLAB to graph linear interaction energies of bacterial pilus.

Projects

PACTALK

[PACTALK-AC](#) 

- A modification of the traditional Pac-Man game that can be controlled through voice commands. This includes commands for moving the Pac-Man character in different directions and pausing the game.
- Tools Used: Python, Vosk, Pygame

ArmInArm Food Pantry Project

[ArmInArm](#) 

- Collaborated with peers on a Ruby on Rails application with PostgreSQL 13 for Arm In Arm. Improved user input handling, database synchronization, and enhanced the application's visual design.
- Tools Used: Ruby, HTML, Javascript, PSQL

Technical Skills

Programming Languages: Java, C++, HTML, Python, Ruby on Rails, SQL, LaTeX

Development Tools: Git, GitHub, Postman, Android SDK

Frameworks: Spring Boot, Apache Kafka

Databases & Cloud: CosmosDB, Azure Data Studio, PostgreSQL