Prerna Shukla

East Brunswick, NJ
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EDUCATION

Rutgers University - New Brunswick | Honors College   **New Brunswick, NJ**
Bachelor of Arts in Computer Science and Psychology   *May 2027*
- **Cumulative GPA:** 4.0/4.0
- **Honors/Awards:** Dean's List Scholar, Honors College Deans' Scholarship
- **Relevant Coursework:** Calculus 2, Data Structures, Introduction to Computer Science, Social Psychology, Computer Architecture, Sensation and Perception, Linear Algebra, and Quantitative Methods in Psychology

WORK & LEADERSHIP EXPERIENCE

Cancer Institute of New Jersey   **New Brunswick, NJ**
Summer Intern   *May 2024-September 2024*
- Project 1: BioGPT
  - Developed Java programs to automate the extraction and transformation of 1,000+ medical reports into JSON format for structured storage and analysis, then transformed JSON data into CSV format, improving usability.
  - Enhanced data processing efficiency, reducing manual effort by automating data extraction and conversion.
- Project 2: OnBase
  - Developed a Python script to automate the verification of S3 mounts, ensuring proper file access and integrity.
  - Utilized MD5 checksum validation to confirm data integrity and implemented logging to monitor the verification.
  - Designed script to create, read, and delete test files on the mounted S3 system, ensuring full mount functionality.
  - Significantly reduced manual verification time, streamlining the S3 file management process for medical data.

Carrabba's Italian Grill   **East Brunswick, NJ**
Hostess/Carside Worker   *June 2022-August 2023*
- Greeted and sat customers enthusiastically, and addressed customer concerns, ensuring a positive dining experience.
- Developed time management and multitasking skills by efficiently handling take-out and delivery orders.

Arman Roy Foundation   **Mountainside, NJ**
Youth Squad Member/Social Media Team Leader   *March 2022-August 2023*
- Organized and led fundraising events, including a 5K Run for Hope, raising over $40,000, and a Family Fun Day, raising over $2,800 to improve access to technology for underprivileged communities.
- Managed and grew social media presence, increasing engagement through targeted campaigns and event promotions.
- Delegated tasks and supervised a team of student volunteers, strengthening team coordination and leadership abilities.

PROJECTS

Spiderverse Multi-Dimensional Graph Project   *April 2024*
- Designed and implemented a multi-dimensional graph using **hash maps** and **adjacency lists** to manage dimensions, people, and anomalies, optimizing event management and dynamic rehashing.
- Applied **Dijkstra's algorithm** to find shortest paths for anomaly rescues, ensuring time-sensitive route optimization.

SKILLS, ACTIVITIES, & INTERESTS

Languages: French (Limited Working), Bengali (Limited Working)
Technical Skills: Java, C, Python
Certifications & Training: HIPAA - Issued by Rutgers University, July 2024
Interests: Drawing, Baking, Music, Going on Walks, Traveling in Europe
Activities: WiCS (Women in Computer Science)