Aarav Modi

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Education

Rutgers University **GPA: 3.96/4.0**

B.S in Computer Science, Business Analytics IT *May 2025*

- **Organizations:** Mobile Application Development Club, Quantitative Finance Club, Travel Tennis
- **Relevant Coursework:** Computer Architecture, Linear Algebra, Intro to Computer Science, Data Structures

Skills

- **Languages:** Java, Swift, C, C++, Python, HTML, CSS, JavaScript, React.js, Node.js
- **Skills:** AWS Cloud Practitioner, Git/Github, Object Oriented Programming, Microsoft Office

Professional & Leadership Experiences

National Basketball Association (NBA) **New York, New York**

Software Engineer Intern *June 2022 - August 2022*

- Aided in development of newly owned and operated platform known as **NextGen Initiative**
- Updated schemas to accommodate **API** updates for 5+ game cards and models (ex. featuredVodCard, playlistVodCard, & articleVodCard)
- Developed **lock screen widget** for iOS App to display NBA game status by implementing **Swift**
- Performed manual testing for multiple digital products and devices through **TestFlight**
- Collaborated with QA engineers to close & resolve 50+ bugs in multiple areas of app (ex. For You Feed)

Road to Wall Street Program **New Brunswick, NJ**

Member *April 2022 - Present*

- Selected from over 350 applicants to be part of a 55-member cohort to participate in a 3-credit modeling course
- Completed preparatory courses in MS Excel, Financial Accounting, and Analyzing Financial Reports
- Coordinated with group members on equity research report to issue buy rating for Target (TGT: NYSE) stock on December 9, 2022

Projects

Prerequisite Checker

- **Java** program allowing users to input college courses in a syllabus structure to assist with course scheduling
- Programmatically informs students about eligibility for a particular course and assists them by providing a sample course schedule for following semesters to satisfy prerequisites for the course
- Employed **hash tables** (to allow **O(1)** search time), **priority queues** and **linked lists** to search for courses and mimic the Rutgers computer science syllabus structure

Huffman Coding Algorithm

- **Java** application employing a **lossless data compression algorithm** to encode/decode files
- Utilized **binary search trees** to efficiently reduce file size by accounting for character occurrence frequency in input file and ASCII value memory cost
- Achieved **O(n log(n))** run time while reducing file size up to 70% in test cases

Achievements

Dean's List

- Maintained a GPA of 3.5 or better for all semesters with 12 or more credits completed
- High school Middlesex County Tennis Champion (1st singles in draw of 64 players)