Aarav Modi

aaravrmodi@gmail.com | linkedin.com/in/aarav-modi/ | github.com/amodi4

EDUCATION

Rutgers University   **New Brunswick, NJ**
B.S in Computer Science + Business Analytics   *May 2025*
- **GPA:** 3.94 / 4.0; **SAT**: 1520/1600
- **Activities:** Mobile Application Development Club, Quantitative Finance Club, Dean's List
- **Relevant Coursework:** Intro to CS, Data Structures, Computer Architecture, Linear Algebra

WORK & LEADERSHIP EXPERIENCE

Lockheed Martin (Incoming)   **Moorestown, NJ**
Software Engineer Intern   *June 2023 – August 2023*
- RMS division, Mark 41-VLS

National Basketball Association   **New York, NY**
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 UI** for NBA iOS App to display game status using **Swift**
- Performed manual testing for multiple digital products and devices through **TestFlight**
- Worked with QA engineers to resolve 50+ bugs in various areas of app (ex. For You Feed)

Rutgers Mobile App Development Club   **New Brunswick, NJ**
Director of External Relations   *April 2023 – Present*
- Developed + maintained corporate network of over 25 Fortune 500 companies with RUMAD
- Reach out to companies for speaker events, and information sessions (Capital One, Mongo DB, Amazon)
- Reach out to 50+ alumni to come in and advise on recruiting, project development, and technical concepts

PROJECTS

Prerequisite Checker   *April 2022 – May 2022*
- **Java** program allows users to input courses in a syllabus structure to assist with scheduling
- Programmatically informs students about eligibility for a particular course and aids them by providing a sample course schedule for following semesters to satisfy prerequisites
- Employed **hash tables** (to allow **O (1)** search time), **priority queues** and **linked lists** to search for 20+ courses and mimic the Rutgers computer science syllabus structure

Huffman Coding Algorithm   *March 2022 – April 2022*
- **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

SKILLS, ACTIVITIES & INTERESTS

Languages: Java, Swift, C, C++, Python, HTML, CSS, React.js, Node.js
Technical Skills: AWS Cloud Practitioner, Git, Object Oriented Programming, MS Office
Interests: Tennis (High school County Champion), Ukulele, Garba, Celtics, Harry Potter