

Aarav Modi

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EDUCATION

Rutgers University

New Brunswick, NJ

B.S in Computer Science & Business Analytics IT

May 2025

- **GPA:** 3.96 / 4.0; **SAT:** 1520/1600
- **Activities:** Mobile Application Development Club, Quantitative Finance Club, Dean's List
- **Relevant Coursework:** Intro to Computer Science, Data Structures, Computer Architecture, Principles of Programming Languages, Linear Algebra, Discrete Structures

WORK & LEADERSHIP EXPERIENCE

Lockheed Martin

Moorestown, NJ

Software Engineer Intern

June 2023 – Present

- RMS division, Mark 41-VLS (Vertical Launching System) project
- Run **Perl** script to convert code repositories from Visual SourceSafe to Git

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. articleVodCard, gameVodCard)
- Developed **lock screen widget UI** for NBA iOS App to display live game status using **Swift & Xcode**
- Performed manual beta 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, Scores Tab, Watch Tab)

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)

PROJECTS

One Shot Learning Algorithm

October 2022 – November 2022

- C application using training data set to learn weights for a set of house attributes, to later apply those weights to set of input data to calculate prices for houses
- Implements **Gauss-Jordan elimination** to find and manipulate inverses of matrices with row operations

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

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

SKILLS, ACTIVITIES & INTERESTS

Languages: Java, Swift, C, C++, Python, HTML, CSS, React.js, Node.js, Perl

Technical Skills: AWS Cloud Practitioner, Git, Object Oriented Programming, MS Office

Interests: Tennis (High school County Champion), Ukulele, Garba, Celtics, Harry Potter