

# Aarav Modi

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## EDUCATION

<b>Rutgers University</b> <i>B.S in Computer Science + Business Analytics</i> <ul style="list-style-type: none"><li><b>GPA:</b> 3.94 / 4.0; <b>SAT:</b> 1520/1600</li><li><b>Activities:</b> Mobile Application Development Club, Quantitative Finance Club, Dean's List</li><li><b>Relevant Coursework:</b> Intro to CS, Data Structures, Computer Architecture, Linear Algebra</li></ul>	<b>New Brunswick, NJ</b> <i>May 2025</i>
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## WORK & LEADERSHIP EXPERIENCE

<b>Lockheed Martin (Incoming)</b> <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>RMS division, Mark 41-VLS</li></ul>	<b>Moorestown, NJ</b> <i>June 2023 – August 2023</i>
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<b>National Basketball Association</b> <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>Aided in development of newly owned and operated platform known as <b>NextGen Initiative</b></li><li>Updated schemas to accommodate <b>API</b> updates for 5+ game cards and models (ex. featuredVodCard, playlistVodCard, articleVodCard)</li><li>Developed <b>lock screen widget UI</b> for NBA iOS App to display game status using <b>Swift</b></li><li>Performed manual testing for multiple digital products and devices through <b>TestFlight</b></li><li>Worked with QA engineers to resolve 50+ bugs in various areas of app (ex. For You Feed)</li></ul>	<b>New York, NY</b> <i>June 2022 – August 2022</i>
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<b>Rutgers Mobile App Development Club</b> <i>Director of External Relations</i> <ul style="list-style-type: none"><li>Developed + maintained corporate network of over 25 Fortune 500 companies with RUMAD</li><li>Reach out to companies for speaker events, and information sessions (Capital One, Mongo DB, Amazon)</li><li>Reach out to 50+ alumni to come in and advise on recruiting, project development, and technical concepts</li></ul>	<b>New Brunswick, NJ</b> <i>April 2023 – Present</i>
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## PROJECTS

<b>Prerequisite Checker</b> <ul style="list-style-type: none"><li><b>Java</b> program allows users to input courses in a syllabus structure to assist with scheduling</li><li>Programmatically informs students about eligibility for a particular course and aids them by providing a sample course schedule for following semesters to satisfy prerequisites</li><li>Employed <b>hash tables</b> (to allow <b>O (1)</b> search time), <b>priority queues</b> and <b>linked lists</b> to search for 20+ courses and mimic the Rutgers computer science syllabus structure</li></ul>	<i>April 2022 – May 2022</i>
<b>Huffman Coding Algorithm</b> <ul style="list-style-type: none"><li><b>Java</b> application employing a <b>lossless data compression</b> algorithm to encode/decode files</li><li>Utilized <b>binary search trees</b> to efficiently reduce file size by accounting for character occurrence frequency in input file and ASCII value memory cost</li><li>Achieved <b>O (n log(n))</b> run time while reducing file size up to 70% in test cases</li></ul>	<i>March 2022 – April 2022</i>

## 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