Aarav Modi

aaravrmodi@gmail.com | (505) 859-9000 | linkedin.com/in/aarav-modi/ | github.com/amodi4

EDUCATION

Rutgers University   **New Brunswick, NJ**
B.S in Computer Science & Business Analytics IT   *May 2025*
- **GPA:** 3.96 / 4.0
- **Activities:** Mobile Application Development Club, Quantitative Finance Club, Dean's List, Phi Chi Theta
- **Relevant Coursework:** Data Structures, Computer Architecture, Software Methodology, Design & Analysis of Computer Algorithms, Principles of Programming Languages, Linear Algebra, Discrete Mathematics, Principles of Information & Data Management, Management Information Systems

WORK & LEADERSHIP EXPERIENCE

Lockheed Martin   **Moorestown, NJ**
Software Engineer Intern   *June 2023 – August 2023*
- Implemented **Perl** script to convert and integrate 150+ code repositories from **Visual SourceSafe** to **Git**
- Configured **batch** file & **options** file to pass filesystem path parameters and target directories for git conversion
- Transformed a series of assignments into a streamlined algorithm by leveraging data structures such as HashMap for module storage and array to manage distinct jSpinner values; improved time efficiency by 75%
- Integrated dynamic ComboBox action listener feature in VLS Software Program GUI using **Java Swing** & **NetBeans**
- Developed file output + **data reduction** functionality to support proprietary Lockheed Martin launcher simulators

National Basketball Association   **New York, NY**
Software Engineer Intern   *June 2022 – August 2022*
- Developed **lock screen widget UI** for NBA iOS App to display live game status using **Swift** & **Xcode**
- Updated **JSON** schemas to accommodate **API** updates for 5+ game cards and models (ex. articleVodCard)
- Worked with QA engineers to resolve 75+ 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 25+ Fortune 500 companies to host info sessions & recruiting events

PROJECTS

Photos   *October 2023 – December 2023*
- **Java-**based **Android** photo management application featuring a GUI for user management and a client interface for creating albums, importing photos, tagging images, and searching for specific photos
- Implemented data persistence by employing **Serializable** interface, allowing serialization of object data to a .dat file and ensuring users retain changes across multiple applications

Chess Engine   *September 2023 – October 2023*
- **Java** application implementing object-oriented model for the chess game by establishing a hierarchy of chess piece classes through inheritance, with each piece having its own set of data and functions through abstraction
- Implemented complex chess algorithms, including en passant, castling, check, and checkmate detection by employing polymorphism and method overriding to cater to each piece's valid move patterns

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

SKILLS, LANGUAGES, & INTERESTS

Languages: Java, Swift, C, C++, Python, HTML, CSS, React.js, Node.js, SQL, Perl
Technical Skills: AWS Cloud, Gitlab CI/CD, OOP, VS Code, Jira, Confluence, Linux, Docker, Kubernetes, Postman
Interests: Tennis, Ukulele, Boston Celtics, Harry Potter, Garba, Football