

Rahul Arora

973-665-4466 | [Email](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

Rice University

BS Computer Science, BA Mathematics, Minor: Financial Computation and Modeling

GPA: **3.95/4.00**, President's Honor Roll

Newark Academy

IB Diploma Recipient, National Merit Scholar, Cum Laude Society, ACT: 36

Houston, TX

Aug. 2023 – May 2027

Livingston, NJ

Sep. 2019 – May 2023

EXPERIENCE

Software Dev Intern

Graham Capital Management

- Will be enhancing API layer for data delivery by creating a consolidated centralized consumption layer

Jun. 2025 – Present

Rowayton, CT

Undergraduate Research Assistant

Rice University

- Advancing augmented distribution testing by scaling predictive reference models to enhance statistical inference

Feb. 2025 – Present

Houston, TX

Software Engineering Intern

PROS

- Improved efficiency of flight data processing pipeline by 35% by developing an API to accurately parse data
- Added REST API to query data from Cassandra database with Dropwizard framework in JDK 21
- Enhanced security by implementing a credential management system for REST API calls in an Electron app

Jun. 2024 – Aug. 2024

Houston, TX

Student Coordinator – Data Center

Rice University

- Organized campus-wide Geographic Information System (GIS) courses, mentoring 50+ students on developing applications and analyzing datasets using ArcGIS Pro, and overseeing independent GIS research
- Performed regression analysis on US Gov. census tract datasets using ArcGIS Pro to determine Texas's energy generation sources and the ability to provide to electricity consumers

Aug. 2023 – Present

Houston, TX

PROJECTS

Custom Dynamic Memory Allocator | C

- Developed in C; implemented custom malloc, free, and realloc with segregated free lists
- Built heap consistency checker to optimize throughput and space utilization, achieving a performance of $\geq 97\%$

Mar. 2025 – Apr. 2025

Sports Attendance Tracker | JS, HTML, PHP, SQL

- Developed a full-stack web app for school athletics dep. to analyze event attendance, tracked IDs with QR codes
- Increased student attendance by 28% through website engagement by department, led to school-wide changes

Sep. 2021 – May. 2023

EXTRACURRICULAR/LEADERSHIP ACTIVITIES

Rice Math Problem Solving Group

- Prepare and solve problems for the William Lowell Putnam Math Competition

Aug. 2024 – Present

Rice Quant Trading Club

Aug. 2024 – Present

CoFES Research Paper Reading Group

- Center for Computational Finance & Economic Systems group to discuss topics in quantitative research

Aug. 2023 – Present

Rice Club Squash – President & Club Team Founder

- Compete nationally, organize practices, helped raise > \$50,000 for Houston Mission Success (local nonprofit)

Aug. 2023 – Present

TECHNICAL SKILLS

Languages: Java, Python, C/C#, R, Haskell, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, Swift

Frameworks: React, Node.js, .NET, JUnit, sklearn

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib

Other: Bloomberg Terminal, Excel, Git/Github, Agile/Scrum, OOP (Object-Oriented Programming), Data Visualization, Data Structures & Algorithms*, Machine Learning, Linear Algebra*

(* denotes Teaching Assistant)