

# HANAA CHARANIA

Dallas, GA 30157 | [hcharania25@amherst.edu](mailto:hcharania25@amherst.edu) | 404-960-4517 | [linkedin.com/in/hanaa-charania](https://www.linkedin.com/in/hanaa-charania)

## EDUCATION

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**Amherst College** | Amherst, MA

May 2025

- Bachelor of Arts in Computer Science & Spanish
- Cumulative GPA: 3.78/4.00
- Relevant Coursework: Algorithms (TA), Data Structures, Database Design, Data Mining
- Activities: President of Amherst Active Minds, Women in Computer Science (WiCS)

## EXPERIENCE

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**Amherst College** | Amherst, MA

June 2024 - May 2025

*Bioinformatics Research Assistant for PMN Database*

- Validated & Labeled 20+ manuscripts for efficient indexing into the database of studies that evaluated the changes in permafrost microbial communities after thawing
- Conducted 10+ independent searches to find information missing from the published manuscripts
- Collaborated across teams to enhance database search functionality and quality assurance

**Georgia Youth Justice Coalition** | Marietta, GA

Sept 2022 - June 2024

*Digital Voter Engagement Organizer*

- Identified 100+ student storytellers from the story bank to share their stories, motivating voter engagement in the 2022 GA & Runoff Elections
- Spearheaded digital advertising, targeting 200+ Black, Hispanic, and AAPI young voters using audience data
- Improved voter participation by 30% through strategic data-driven marketing

**Pediatric Brain Tumor Foundation** | Marietta, GA

Jan 2021 - May 2021

*Digital Advertising Intern*

- Conducted research on how to increase the longevity of nonprofits during COVID-19 pandemic
- Planned posts & designed 30+ Facebook graphics for the Run 100 Miles in May Challenge
- Designed welcome pack; wrote press release statements to public for the PBTF community fundraising initiative, promoting more accessible information on pediatric brain tumor research

## PROJECTS

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**Being Human in STEM (HSTEM) Database**

- [GitHub Link](#)
- Developed a centralized SQL database with CRUD operations to store 200+ student projects, creating a full-stack solution that improved data accessibility by 40% and reduced retrieval time by 30%
- Tech Stack: React, Chakra UI, Django REST Framework, Python, SQL

**F1 Real-Time Racing**

- [GitHub Link](#)
- Built an interactive, real-time racing game where players compete against AI opponents on dynamically rendered current F1 tracks, featuring pixel-level collision detection and AI pathfinding with waypoint navigation
- Integrated live F1 race data and weather forecasts using REST APIs to provide up-to-date circuit information and race-day conditions
- Tech Stack: JavaScript, HTML5 Canvas, Ergast F1 API, Open-Meteo API

## SKILLS & INTERESTS

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- **Language(s):** Fluent in Spanish, Fluent in English, Beginner in Hindi, Beginner in Gujarati
- **Technologies:** Python (NumPy, Pandas, API integration), Java, HTML/CSS, SQL (Snowflake, query optimization), Data Analysis, Git, Shell scripting, Adobe Photoshop, Adobe Animate
- **Interests:** Poetry, thrifting, scrapbooking, board games, watching Marvel movies