

Aarush Lanjharia

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EDUCATION

Georgia Institute of Technology (GT), Atlanta, GA

May 2028

Bachelor of Science in Computer Science; Threads: Intelligence & Cybersecurity; Honors Program; GPA: 4.00/4.00

Relevant coursework: Object Oriented Programming, Algorithms, Human Dimension of Cybersecurity, Discrete Math, Combinatorics

WORK EXPERIENCE

Georgia Institute of Technology, Peer-Tutor, Atlanta, GA

August 2024 – Present

- Conducted 100+ hours of one-on-one tutoring sessions for Calculus, Linear Algebra, Combinatorics and Intro to Computing
- Supported 20+ students through tailored support and effective communication

Dynamo Pool Management, Lifeguard, Dunwoody, GA

Summers 2023 & 2024

- Lifeguarded for 200+ hours ensuring guest safety and water-regulation policies through active monitoring
- Ensured chemical levels and cleanliness standards on an hourly basis to prevent transfer of diseases among guests and coworkers

MAD-learn, Summer Intern, Atlanta, GA

May 2023 – August 2023

- Developed app templates and prototypes, enabling students to create custom apps with intuitive interfaces
- Devised SEO improvement strategies for MAD-learn through detailed research and reporting to enhance platform visibility

PROJECTS

Travel Itinerary Generator

April 2025

- Built a web app for travel planning with real-time traffic, weather, and optimized routing via Google Maps and Weather APIs
- Designed dynamic itinerary features including filtering, reordering, and user-submitted tourist attraction recommendations
- Collaborated in a team to build a dual-profile system enabling tourists to plan trips and locals to share and manage points of interest

AI Chatbot

April 2025

- Built a conversational agent in Dialogflow CX to teach and compare Observer, Composite, and Strategy design patterns
- Designed flexible dialog flows to define patterns, give examples, and handle user-initiated comparisons between any two
- Integrated phone API functionality, enabling users to interact with the agent via live phone calls

RSA Encryption/Decryption Program

December 2024

- Created a JavaScript algorithm for RSA encryption, including prime generation, modular exponentiation, and base conversions
- Developed an interactive educational tool, enabling users to explore RSA encryption and understand cryptographic principles
- Explained RSA's mathematical foundation and security, covering key generation, encryption/decryption, and critical vulnerabilities

Sundial Template Generator

June 2024

- Developed an interactive website using HTML/JavaScript/CSS, allowing users to generate custom printable Sundial templates
- Implemented algorithms to calculate and render accurate sundial designs based on user-inputted or auto-detected location
- Used a hidden HTML canvas to render templates, supporting various design options such as pocket and table sundials

LEADERSHIP/CLUBS

3D Printer Manager, Georgia Tech Honors Program

January 2025 – Present

- Oversee all technical operations of the Honors Program 3D printer, including setup, calibration, and preventative maintenance
- Lead and organize bimonthly training sessions, teaching students CAD slicing, printer operation, and troubleshooting best practices

Member, Little Einsteins Organization

January 2025 – Present

- Collaborate with fellow members to design and deliver engaging STEM lessons for K–5 students in under-resourced Atlanta schools
- Volunteer weekly to assemble STEM experiment kits, distributed to Fulton County Libraries to expand access beyond the classroom

Member, Tech Taekwondo

August 2024 – Present

- Train regularly in Taekwondo to build discipline, focus, and physical fitness as part of Georgia Tech's official club
- Support a team environment by participating in group practices, sparring sessions, and campus martial arts events

HONORS AND AWARDS

2nd Place in the GA Student Technology Competition

Tom Morley Award in Multivariable Calculus

Mu Alpha Theta National Scholarship

1st Place Team in the GA State Calculus Competition

Tom Morley Award in Linear Algebra

Certificate of Excellence in Mathematics

SKILLS

Technical: HTML/CSS/JavaScript, Python, Java, Microsoft Office, Google Workspace, Generative AI: GPT, Copilot, Gemini, Claude

Additional: American Heart Association CPR/AED & BLS provider, QPR Suicide Prevention trained, OSHA General Industry certified