

Rayyan Surani

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

Bachelor of Science, Computer Science

Concentrations: Intelligence, Modeling & Simulation

Key Coursework: Machine Learning, Automata and Complexity, Intro to AI, Design and Analysis of Algorithms, Data Structures and Algorithms, Object and Design

May 2027

GPA: 4.00 / 4.00

PROGRAMMING SKILLS

Programming Languages: Java, Python, C++, C, C#, SQL, JavaScript

Libraries: PyTorch, NumPy, Mediapipe, Flask, OpenCV, Matplotlib, Pandas, React, Node.js

Frameworks: React, Django, Next.js

WORK EXPERIENCE

Andretti Indoor Karting and Games

Game Technician

Buford, GA

February 2024 – August 2024

- Resolved customer complaints and game issues, ensuring **95% satisfaction** across all players, maintaining a **positive customer experience**.
- Tested and maintained 5+ games daily, reducing downtime on machines and directly contributing to **increased revenue**.
- Collaborated with a 7-member team to verify that the entire game floor was **operating optimally**.

PROGRAMMING PROJECTS

Knowledge Recognition Location AI, AI ATL Hackathon

November 2025

- Competed in a 36-hour AI Hackathon to develop an **auditory aid for visually impaired people**, enabling object location and collision warnings.
- Coordinated with a 4-member team to implement Object Detection models, Azure LLM integrations, and AI text-to-speech models for **dynamic responses**.
- Gained hands-on experience in **API integration, full-stack development**, and fast-paced collaborative prototyping.

Sign Language to Speech

July 2025

- Initiated project to **assist verbally impaired individuals** by designing a real-time ASL-to-Speech aid.
- Developed an MLP model in PyTorch trained on pre-labeled ASL alphabet images; integrated Mediapipe with Computer Vision for a **real-time conversation aid**.
- Enhanced expertise in **computer vision and image pre-processing**, gained hands-on experience with machine learning through iterative experimentation and debugging.

LEADERSHIP AND COMMUNITY ENGAGEMENT

The Robot Collective, Member

January 2026 – Present

- Collaborating on weekly team discussions revolving around feature expansions of swarm robotics.
- Training and testing lightweight computer vision models for swarm robots.

GT Esports Club, Member

August 2025 – Present

- Engaging with the GT Esports community by being involved in team-building activities like in-house matches.

HONORS AND ACHIEVEMENTS

Dean's List

December 2025

- Dean's List in Georgia Institute of Technology

Skills USA, Computer Programming

February 2024

- Won a gold medal with first place in the State of Georgia

Skills USA, Mathematics

June 2023

- Won a gold medal with first place in Nationals

ADDITIONAL SKILLS AND INTERESTS

Languages: Fluent in English, Urdu, and Hindi; Elementary Proficiency in Mandarin

Fine Arts: Piano, 3D Modeling

Interests: Chess, Weightlifting, Esports