

# Ashwin Mudaliar

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## OBJECTIVE

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To gain a fundamental understanding of topics in fields such as Data Science, Quantum Computing, Software Engineering, Artificial Intelligence, and Quantitative Trading.

## EDUCATION

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### GEORGIA INSTITUTE OF TECHNOLOGY

May 2026

- Candidate for Bachelor of Science in Computer Science and Mathematics
- Threads/Concentrations: Intelligence and Devices, Pure Mathematics
- Relevant Coursework: CS1332, CS2110, MATH 2106, MATH 1554, MATH 2551
- GPA: 4.0/4.0

## SKILLS

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**Software:** React, MongoDB, Express, SolidWorks, AWS, Node.js, Flutter, TensorFlow, Vite, Three.js  
**Programming:** Java, Dart, JavaScript, C, Python [Intermediate], Rust [Basic]  
**Languages:** Tamil [Fluent]  
**Interests:** Quantum Computing, Data Science, Quantitative Trading, Software Engineering

## PROJECTS

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### *Raffy.io*

- Built a web-based full-stack raffle application using Express, Node.js, and EJS, and deployed it using AWS

### *Hangman Application*

- Developed a Hangman Application using Dart and Flutter, winning First Place in the Fulton County Technology Fair

### *UCSD Graphs Application*

- As part of an advanced Java course offered by the University of California, San Diego, built an advanced maps application that employed the Google Maps API and implemented the A\* and Dijkstra's Algorithm

### *Thermal Camera*

- Built a raspberry-pi-based thermal camera that uses advanced interpolation algorithms to identify inflammation in a patient's region of interest

### *Rust-Based Blockchain*

- Used Rust to build a basic blockchain application that implements chain validation, hashes, and smart contracts.

### *UCSD Text Editor*

- As part of an advanced Java Course offered by the University of California, San Diego, I build at advanced text editor application that implements concepts such as Binary Search Trees and Hash Maps for spellcheck and Markov Text Generation.

## EXPERIENCE

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### Storm Robotics

October 2021 – August 2023

#### *CEO & Founder*

A 502(c)3 organization that has served over 80 students through one FRC team and two FLL teams.

- Oversaw the construction, programming, and funding (\$100,000) of a 125-lb robot as part of the FIRST Robotics Competition
- Led the team to the World Championships in Houston, TX and was awarded the Rookie Inspiration Award on an International Level
- Created and mentored 2 First Lego League teams that has served approximately 30 students

## ACTIVITIES AND ACCOLADES

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### Nationally Ranked Squash Athlete

2016 - 2023

- Nationally Ranked and consistently ranked among the top 3 junior players in the Southeast Region
- Awarded the US Squash Scholar Athlete Award

### US Presidential Scholar Semi Finalist

May 2023

### Region 3A PAGE STAR Student

March 2023

### SAT Perfect Scorer

