Ashwin Mudaliar

404-769-2132 • ashwinmudaliar.com • ashwinamudaliar@gmail.com • US Citizen

OBJECTIVE

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

EDUCATION

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: Data Structures and Algorithms, Linear Algebra, Computer Organization and Programming Linear Algebra, Foundations of Mathematical Proof
- GPA: 4.0/4.0

SKILLS

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

PROJECTS

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 (UCSD), built an advanced maps application that employed the Google Maps API and implemented the A* and Djikstra'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

- Built an advanced text editor application that implements concepts such as Binary Search Trees and Hash Maps for spellcheck and Markov Text Generation through an advanced Java course offered by UCSD.

EXPERIENCE

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

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