

# Michael Zuo

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- Self-motivated and quick learner with strong problem-solving skills
- Savvy computer programmer, mathlete, and athlete; excellent team member

## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Mathematics, Bachelor of Science in Computer Science*

*May 2026*

GPA: 4.00/4.00

**Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms for Applications, Computer Organization and Programming, Programming with Python, Linear Algebra, Probability Theory, Applied Combinatorics

## EXPERIENCE

### Quantitative Researcher

Jan. 2024 – Present

*Trading at Georgia Tech*

*Atlanta, GA*

- Working with a team to find correlations between daily market volatilities and pivotal turning points
- Utilize Python and specialized libraries to model Kernel Density Estimation

### Applied Combinatorics Teaching Assistant

Jan. 2024 – May 2024

*Georgia Institute of Technology*

*Atlanta, GA*

- Grading assignments and exams for 85 students in Applied Combinatorics
- Created many rubrics and double checked many regrade requests

### SIG Discovery Day Fellow

Feb. 2024

*Susquehanna International Group, LLP*

*Atlanta, GA*

- Engaged in a hands-on market making workshop that brings financial theory to life
- Explored thrilling connections between probability theory and strategies in the world of game theory in basketball, football, and video games

### SWOCA IT Project Internship

May 2023 – Aug. 2023

*Southwest Ohio Computer Association*

*Cincinnati, OH*

- Built wireless network for SWOCA's customers (ex: middle/high/special education schools)

## TECHNICAL SKILLS

**Languages:** Java, C, C++, Python, LC-3 Assembly, VB6, VB.NET, LaTeX

**Frameworks:** React Native

**Developer Tools:** VS Code, Eclipse, IntelliJ

**Certifications:** Lifeguard Certification, Red Cross CPR

## CLUBS AT GEORGIA TECH

**Competitive Programming @ Tech**

**Trading Club @ Georgia Tech**

**Georgia Tech Swim Club**

## PROJECTS

### Malloc Implementation | C

Apr. 2024

- Programmed the heap to function like a linked list of free space
- Optimized the linked list to merge or break apart depending on called size

### HashMap | Java

Feb. 2024

- Programmed a HashMap backed by an Array that allows  $O(1)$  average case key lookup
- Uses linear probing as the collision resolution strategy

### Python Trivia Game | Python

Dec. 2023

- Developed a Trivia Game for the anime Garden of Sinners using Python
- Includes multiple challenging modes and a risk vs reward system for GT Anime Club with over 500 members

### Java Startup Idea Generator | Java

Nov. 2023 – Dec. 2023

- Utilized JavaFX to make a GUI assist with generating startup problems and solutions
- Automatically loads data from a CSV file and allows for seamless saving

## AWARDS

**Putnam Competition Top 30%** (2024)

**4-Time AIME Qualifier** (2020, 2021, 2022, 2023), **First Place ARML Team** (2022)

**USAPhO Semifinalist** (2022)

**Ohio District Swimmer** (2022), **Mason High School Varsity Swimmer** (2019, 2020, 2021, 2022)