

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 Computer Science, Bachelor of Science in Mathematics

May 2026

GPA: 4.00/4.00

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computing with Python, Computer Organization and Systems, 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)