

# TUANH TRAN CAO

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## Education

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**Georgia Institute of Technology** Atlanta, GA  
B.S. in Computer Science Expected May 2023  
Concentrations: Artificial Intelligence, Media  
**Programming Languages:** Java, MATLAB, Swift, Python, HTML, JavaScript, CSS  
**Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms

## Experience

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**Georgia Institute of Technology College of Computing** Atlanta, GA

- Teaching Assistant for CS 1371 – Computing for Engineers January 2021-present
  - Led weekly recitations to teach course material for approx. 50 students to better understand programming language MATLAB
  - Held weekly office hours to guide students on debugging their homework
  - Developed homework problems and test questions to evaluate student's understanding and skill coding in MATLAB
  - Worked with team of over 30 TAs to set students up for success in the course by solving students' inquiries, updating class resources, and grading exams
- Software Development Team Engineer August 2021-present
  - Analyzed code and documented functionality of course homework auto-grader
  - Reconstructed auto-grader software from Google-based authorization to Microsoft-based authorization to accommodate towards university's privacy agreement

**University of South Alabama's Lab of Infectious Diseases** Mobile, AL

- Lab Assistant May 2019 - July 2019
  - Performed DNA extraction, PCR, and analysis of agarose gel for research towards understanding the packaging and transmission mechanism of the influenza virus
  - Co-authored manuscript with the Principal Investigator and Lab Technician

## Projects

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**Snake IO Game** August 2021

- Programmed a Snake IO game to explore game development, user interface, and the numerous functionalities of a GUI
- Utilized JavaFX to design the scene, maximize aesthetics, and ensure smooth game performance

**Data Visualization** April 2021

- Collaborated with 15 other Teaching Assistants to filter data of crime in Atlanta from 2017, implement a GUI of the statistics, and plot the locations of each crime on a map
- Designed project guidelines for over 800 students to challenge their programming skills

## Leadership

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**Vietnamese Student Association** August 2020-present

- Freshman Representative (August 2020-May 2021)
  - Volunteered at major events and fundraisers to promote high participation and diversity
  - Worked with 8 other executive board members to efficiently prepare and execute events
- Treasurer (May 2021-present)
  - Planned and executed all fundraisers to expand funds for future events
  - Managed finances of all events to accommodate for budget and satisfaction of over 100 members from general student body

## Skills

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Languages: English – *fluent*, Vietnamese – *fluent*, Spanish – *conversational*, Korean – *elementary*  
Extracurriculars: Piano, Guitar, Dance