

# ARINA SHAH

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U.S. Citizen

## EDUCATION

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**GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering** **Atlanta, Georgia**  
**Bachelor of Science in Computer Engineering** *May 2025*

- Threads: Distributed System & Software Design, Robotics GPA: 3.93
- Engineering & Business Minor through the Denning Technology & Management Program
- Dean's List (Fall 2022), Faculty Honors (Fall 2021 & Spring 2022)
- Courses: Circuit Analysis, Digital Design Lab, Data Structures & Algorithms, Intro to Signal Processing, Programming HW/SW System, Digital System Design

## EXPERIENCE

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**GEORGIA INSTITUTE OF TECHNOLOGY** **Atlanta, Georgia**  
*Teaching Assistant / ECE 2035: Programming Hardware/Software System* *January 2023 – Present*

- Hold office hours to help students with questions about assignments and assist students with debugging their code
- Grade assignments, help lead review sessions before exams, and answer questions about lecture material

## CODING WITH KIDS

*Instructor* **Austin, Texas**  
*May 2022 – August 2022*

- Instructed a variety of coding-based week-long summer camps and weekly private classes to students ages 7-13
- Helped students learn foundational robotics concepts and coding fundamentals in Scratch and Python and build upon those skills to create projects and games

## PROJECTS

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**GEORGIA INSTITUTE OF TECHNOLOGY** **Atlanta, Georgia**  
*Vertically Integrated Project: Agile Locomotion & Manipulation – Human Prediction* *August 2022 – Present*

- Lead the machine learning sub-team which includes onboarding new members and explaining complex code
- Predict the motion of the Digit humanoid-robot and dynamic obstacles in its path using Kalman Filters, Trajectron++, and transformers in Python as part of research conducted with the Laboratory for Intelligent Decision and Autonomous Robots

## GEORGIA INSTITUTE OF TECHNOLOGY

*Hungry Viper Game* **Atlanta, Georgia**  
*November 2022*

- Programmed an advanced recreation of the classic Snake game in C and deployed the game to a gaming circuit I built
- Created a Hash Table library in C based on a pre-specified API and wrote unit tests to verify functionality
- Used the Google Test framework, make, and Linux's Address Sanitizer to execute automated testing
- Built the hardware necessary for an embedded system using the Mbed LPC1768

## GEORGIA INSTITUTE OF TECHNOLOGY

*RISE First-Year Leadership Organization Service Project* **Atlanta, Georgia**  
*August 2021 – May 2022*

- Planned an event with a representative from a women's shelter to raise awareness for homeless domestic violence survivors
- Helped run an organization-wide service project that included a menstrual product drive and a tabling event to spread knowledge about issues such as period poverty, sustainable menstruation, and period stigma

## LEADERSHIP

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### GEORGIA INSTITUTE OF TECHNOLOGY

*Tech Lead / iOS Club* **Atlanta, Georgia**  
*August 2022 – Present*

- Lead projects designing iOS apps while teaching Swift and iOS app development to members of all experience levels
- Created *Koalateer* in Fall 2022, an app that connects students to volunteering opportunities catering to their interests
- Building *ChefGPT* in Spring 2023, an app that will give users possible recipes based on the ingredients and equipment at their disposal by using Vision and CoreML to build an ingredient image recognition model

## SKILLS/INTERESTS

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**Technical:** Advanced Microsoft Office Suite, Quartus CAD, FPGAs, myDAQ, GitHub

**Programming:** Java, Python, Swift, C, MATLAB, MIPS Assembly, VHDL

**Languages:** English – native, Bengali – fluent, Spanish – intermediate

**Affiliations:** Honors Program, Women in ECE, VOICE Peer Educators, SMILE, iOS Club, RISE