# Maika Hirata

Atlanta, GA 30308 | mhirata3@gatech.edu | U.S. Citizen

**Objective**

Team-minded and tenacious Computer Engineering student with concentrations in software engineering and robotics seeking a software development internship for summer 2025. Experience with writing and debugging software for a variety of different projects such as programming for hardware in competitive robotics and animatronics.

**Education**

**Georgia Institute of Technology | Atlanta, GA** *August 2024 – Present*

Bachelor of Science in Computer Engineering, GPA 3.00 Expected Graduation, May 2027

**The University of Georgia | Athens, GA** *August 2023 – May 2024*

Transfer with 78 Credit Hours, GPA 3.92

**Skills**

**Programming:** Java, Python, C, JavaScript, CSS, HTML (CIW Site Development Associate)

**Hardware:** Raspberry Pi, Arduino, Mbed, CTR Electronics

**Software:** OpenCV, GitHub, WordPress, Visual Studio Code, Microsoft Office tools

**Professional Organizations:** Georgia Tech Society of Women Engineers, Japanese Student Association

**Languages:** Japanese (native), English (fluent), French (beginner)

**Projects**

**Robodawg | The University of Georgia Robotics Club** *August 2023 –May 2024*

***Computer Vision Team Member***

*Team-based club project (computer vision, walking, mechanical, and electrical sub teams) to develop a walking robot dog*

* Researched, programmed, and troubleshooted software for the robot to detect obstacles, stairs, and people with 3 other members using OpenCV A.I. body-tracking libraries on a Jetson Nano with a ZED camera.

**Relevant Coursework**

**Digital System Design:** Use of Boolean operations and combinational circuit techniques to design and simulate digital logic circuits.

**Intro to Object-Oriented Programming:** Using methods such as encapsulation, inheritance, polymorphism to write GUI programs.

**Activities**

**FIRST Robotics Competition Team 1261 Robo Lions | Programming Lead** *August 2022 – May 2023*

* Mentored 20+ new members on the website and programming sub teams, on web development and Java respectively.
* Implemented closed-loop control in the form of Proportional-Integral-Derivative (PID), path planning, April Tags, and vision tracking software to continuously improve robot performance, leading to winning district event finalist 3 times and district event champion once.
* Presented the team’s engineering design process and iterations made over the season for the robot in detail to judges at competition, winning 4 programming-related awards.

**Girls Who Code/Code Ridge | Vice President** *August 2021 – May 2023*

* Researched local STEM events and contacted guest speakers each week to connect members to opportunities.
* Started up the first general CS club at the school with 25+ members, combining it with Girls Who Code to allow all students to learn how to code while maintaining a clear focus on the empowerment of girls in STEM.

**CodeHers Collective | Web Development Content Specialist** *May 2020 – August 2021*

* Wrote lessons on GitHub, Java, and web development (HTML/CSS/JavaScript), and taught 150+ girls nationwide and worldwide over Zoom in regularly scheduled hour-long sessions.
* Designed 2 mascots, to represent the organization on social media and improve organization recognizability.

**Technology Student Association** *August 2019 – May 2023*

* Designed, built, and programmed a story-based, 4ft tall animatronic running on an Arduino and utilizing pneumatics and servo motors in a team of 3, winning 1st place and 3rd place at the state level and placed in top 10 at the national level.
* Built a website catered to a specific competition theme using HTML, CSS, and JS with a focus on user-friendliness and engagement in a team, placing in top 10 at the state level for 3 years consecutively.