

# Vivian Gu

📍 Irvine, CA    ✉ guvivan122134@gmail.com    ☎ (949) 299-7701    🌐 viviangu.me    🐙 itskaleslaw

## Education

---

### Georgia Institute of Technology

*Expected: May 2026*

*BS in Computer Science + Media, Minor in Mathematics*

- GPA: 3.94/4.00
- **Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Objects and Design, Computer Organization and Programming, Design and Analysis of Algorithms
- **Student Organizations:** VGDev PR Team, GT LoL/TFT Staff, Web Development Club

## Experience

---

### Developer and Project Lead

*Atlanta, GA*

*VGDev Club*

*Aug 2023 - Present*

- Leveraged C# and Rust scripts to develop and refine game mechanics, accelerating the development process.
- Directed a team of 30 students in the design and development of a complete game, managing 4 subteams.

### Undergraduate Researcher

*Atlanta, GA*

*Robotic Musicianship Lab*

*Dec 2024 - Present*

- Developed gaze-based interaction systems for a VR robot using Unity and Meta XR packages.
- Integrated and optimized robot's responsive features to simulate interaction with humans.

### President and Co-founder

*Irvine, CA*

*Math Magicians Branch of Study Smart Youth Services*

*Nov 2019 - June 2023*

- Directed weekly meetings and task distribution of team of 10+ tutors in order to teach free weekly online AMC math classes to 50+ students.
- Applied advertising and teaching strategies to keep students engaged, increasing class sizes by 6x.

## Projects

---

### Restaurant Reservation System — Java, Bootstrap

*June 2024*

- Implemented a full-stack Java web application in a Scrum environment, allowing users to create profiles, make reservations, and gain loyalty points.
- Executed terminal and front-end parity via layered architecture and API requests, effectively storing and updating back-end data such as restaurant availability and loyalty points.

### Cellary Kitchen Management — Python, Flask, HTML/CSS, Bootstrap

*September 2024*

- Led a Flask project to integrate a computer vision model into a digital kitchen inventory management system, resulting in an automated process for tracking ingredients which encouraged reduced food waste.
- Allows for quick scanning of grocery pictures and adjusting of inventory quantities, implemented through a REST API for handling requests between the front-end and back-end.

### Personal Portfolio Website — HTML/CSS, Javascript

*August 2024*

- Developed a responsive webpage using HTML and CSS, enhancing information display across devices.
- Leveraged JavaScript event handlers and queries to implement responsive sliding galleries and pop-ups, improving interactivity and engagement on the site.

## Technical Skills

---

**Programming:** Java, Python, HTML, CSS, C, C#, GLSL

**Frameworks and Tools:** Github, Bootstrap, Flask, Unity, UML, Microsoft Office

**Languages:** English (native), Mandarin (professional proficiency), Spanish (elementary proficiency)