

# Michael Yu Wei

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## EDUCATION

### Georgia Institute of Technology

*Bachelor of Science in Computer Science*

May 2028

Atlanta, GA

**Relevant Coursework:** Introduction to Object-Oriented Programming, Linear Algebra

### Ward Melville High School

*Honors Graduate, Excellence in Data Structures*

June 2025

East Setauket, NY

**Relevant Coursework:** Data Structures, Differential Equations, Multivariable Calculus

**GPA:** 104.6

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, TypeScript, CSS, HTML

**Frameworks:** React, Next.js, Tailwind CSS

**Developer Tools:** VS Code, Git, IntelliJ, IDLE

**Libraries:** Swing, Processing, Regex, SciKitLearn, PyTorch, Pandas, NumPy, PyGame

## EXPERIENCE

### GTGuessr Web Developer

Sep. 2025 – Present

*WebDev @ GT*

Atlanta, GA

- Developing a web application where the user determines campus location based on a student-submitted photo
- Linking application to Firebase authentication, Firestore, and Cloud Storage APIs to save images and user data
- Designing and developing login and game UI using Figma, React, Next.js, and Tailwind CSS to foster a competitive spirit among the university community

### Natural Language Processing Research Lead

June 2023 – Nov. 2023

*University of Groningen, Netherlands*

Remote

- Led a team of three to improve a state-of-the-art Ancient Greek inscription lemmatizer with Stanza and Python
- Eliminated 11.83% of errors in testing data by improving edit distance issues
- Wrote a 6-page paper and gave multiple presentations at a symposium for professors and academics to analyze trends in historical data from Ancient Greece efficiently
- Communicated with humanities professors to analyze feedback and implement solutions
- Configured cross-platform access and devised instructions for functionality across different operating systems
- Explored and expanded upon the foundation of a natural language analysis package

## PROJECTS

### Sprout | React, Next.js, Tailwind CSS, Firebase, Gemini API

Nov. 2025

- Developed an AI brainstorming mentor in 36 hours with a whiteboard-style interface that asks guiding questions
- Implemented a drag-and-drop graph style for idea blocks using React components and an HTML canvas
- Engineered a connection to Firebase API, authentication, and Vercel hosting to publish and secure the website

### DocSearch | Python, Gensim, SciKitLearn, NLTK, Pandas, NumPy, Regex, HTML, CSS

June 2023 – July 2023

- Led a team of four to develop several document recommendation engines
- Examined likeness metrics of various corpora using Doc2Vec, Bag-of-Words, and cosine similarity
- Designed a website and presented findings to William & Mary College
- Explored various document analysis techniques such as Latent Dirichlet Allocation

## LEADERSHIP AND COMMUNITY ENGAGEMENT

### Coding Club President, Instructor, Webmaster

Aug. 2023 – June 2025

*Long Island Youth Development Inc.*

East Setauket, NY

- Partnered with a nonprofit organization to teach Java and Python coding languages virtually to 24 students from 5<sup>th</sup> to 10<sup>th</sup> grade with the mission of inspiring creativity and fulfilling curiosity
- Accumulated over 180 hours of community service by teaching, creating class material, and designing the website

### Teacher's Assistant, Go Instructor

Sep. 2021 – June 2024

*Stony Brook Center for Chinese Learning*

Stony Brook, NY

- Provided opportunities to reinforce students' cultural heritage and proctored oral and written exams
- Accumulated over 150 hours of community service in the classroom by aiding over 50 students ranging from kindergarten to adulthood with class activities
- Fostered passion and skill for the ancient Chinese game of Go by running tournaments and explaining strategies