

Haruto Tanaka

Atlanta, GA | +1 (404) 664-3070 | htanaka5@proton.me | F1 Visa
New grad Software Engineer seeking challenges | Bilingual

Education

Georgia Institute of Technology | Atlanta, GA
Bachelor of Science in Computer Science

August 2022 – Expected December 2025

Experience

Georgia Institute of Technology College of Computing | Atlanta, GA

January 2023 – Current

Undergraduate Teaching Assistant | Computing for Engineers (MATLAB)

- Tutor one-on-one with student at debug session, and proof, moderate and grade exams
- Teach a weekly recitation to a class of 30, through engaging and interactive methods of learning like competitive games
- Mentor an assigned group of around 20 students throughout the semester to ensure their academic success

Interactive Data Visualization of US College Stats with D3.js | Intro. to Information Visualization

Fall Semester 2024

- Processed csv dataset, eliminating null data points and ensuring data accuracy and selecting appropriate visual encoding (e.g., bar charts, scatter plots) aligned with the nature of the data and audience needs
- Designed and implemented an interactive data visualization using JavaScript and the D3.js library, featuring multiple dynamic views and filtering options for in-depth exploration
- Applied UI/UX principles and created a user-friendly interface with "details on demand" interactivity, enabling users to uncover specific insights through intuitive hover, click, and filter actions

MARTA GTFS Timetable | Personal Project

Summer 2024

- Developed interactive web application using MARTA's GTFS data to display route schedules and trip information, handling over 1,000 daily trips
- Parsed and managed large GTFS datasets, optimizing performance to deliver timetables with a loading time under 2 seconds
- Learned Python libraries like NumPy, Pandas, Flask

Food Management Android App | Objects and Design

Spring Semester 2024

- Collaboratively developed GreenPlate, a sustainable food management Android app using Java and Android Studio, integrating Firebase for database functionality. Implemented MVVM architecture, SOLID/GRASP principles, and integrate Firebase database functionality, and ensure the application's stability and reliability
- Key features include calorie tracking, recipe management, ingredient inventory, and shopping list generation. Completed four successful sprints using agile practices, resulting in 2500+ lines of code and 400+ commits.
- Learned and applied industry-relevant skills such as collaborative coding, code review, debugging, and project management using Agile methodologies and Jira.

Skills

- Java, Python, HTML, CSS, JavaScript, MATLAB
- Firebase, Git, Linux, LaTeX, Figma, Illustrator, Excel, AutoCAD, Civil 3D
- Japanese (native), English (fluent)

Extracurricular Leadership Activities

Asian American Student Association | Advocacy Chair

January 2024 – December 2024

- Collaborated with student leaders and professionals in policy
- Organized teach-in events, tabling, and canvassing to educate our peers on community issues

Student Government Association | Campus Safety & Infrastructure Committee

January 2023 – December 2023

- Evaluate campus parking infrastructure, existing public transportation systems and routes, and ADA signage and facilities to recommend student-centered solutions to the Institute Administration
- Conducted surveys on student perceived safety, and mapped danger points to be further analyzed
- Worked with the office of Parking and Transportation Services and Georgia Department of Transportation to hold speaker events and work on official changes in the Comprehensive Campus Plan.