



OLIVIA HU

B.S. in Computer Science
Georgia Institute of Technology

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EDUCATION

B.S. Computer Science | Georgia Institute of Technology

Expected Spring 2026

- GPA: 4.00
- Relevant coursework: Data Structures & Algorithms; Objects & Design; Computer Organization & Programming; Data Input/ Manipulation; Intro to Object-Oriented Programming; Calculus 1, 2, 3; Linear Algebra

PROJECTS

Personal Website Front-end Development

Fall 2023

- Used HTML, CSS, JavaScript, and React to code my website's front-end from scratch. See tinyurl.com/olivia-hu
- Enhanced site aesthetics: illustrated and designed custom graphics; animated objects using framer-motion library

Empathy Bytes Website Back-end Maintenance

Fall 2023

- Helped maintain back-end of website for Empathy Bytes, a vertically integrated project at Georgia Tech
- Leveraged drupal for content management, Gatsby to develop website framework and query back-end

Data Analysis on Shooting Incidents in New York City

Summer 2023

- Gathered datasets via web-scraping (BeautifulSoup) and APIs on NYC demographics, shootings, and abortion rates
- Used python (numpy, pandas) and SQL to align data and draw statistical correlations
- Visualized data using matplotlib and seaborn; gave presentation on conclusions

Minigame on Game Boy Advance Emulator

Spring 2023

- Used C to code a simple puzzle game that ran on a Game Boy Advance (GBA) emulator
- Programmed a video buffer to display custom graphics on GBA screen without glitches
- Implemented state machine to control gameplay; took key inputs to enable player interaction

Research Paper on Deepfake Technology

Spring 2023

- Wrote a 10-page paper compiling research and studies on deepfake innovations and related costs/benefits
- Made projections on deepfake's social/political/economic impacts and their trajectories

COVID-19 Case Study Analysis

Summer 2019

- Analyzed public data from controversial COVID-19 case study to determine the validity of the study's findings
- Used NumPy to conduct statistical hypothesis test to confront legitimacy of high false positive rates
- Represented confidence intervals, p-value, and hypothesis test findings using pandas
- Presented research findings and diagrams to peers and demonstrated mastery of data science concepts

EXPERIENCE

Summer Camp Organizer & Director

Summer 2022

- Directed a day camp with 80+ counselors and campers
- Oversaw entire administrative process: created schedule, recruited and delegated 25+ staff, organized camper rosters
- Managed \$4000 budget to provide meals, decorations, activities, and events/performances

Georgia Tech Europe Study Abroad Program

Summer 2023

- Studied abroad in Metz, France, spoke French with locals, and engaged with cuisine and culture
- Traveled to 9 European countries, gained perspective on various cultures and lifestyles

OTHER SKILLS

Languages C, Java, JavaScript, Python

Related Libraries React, pandas, NumPy, BeautifulSoup