

Samuel Liu

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Education

Georgia Institute of Technology

Atlanta, GA

B.S. Computer Science (Threads: Info Internetworks, Systems & Architecture) | 4.0 GPA

May 2026

- **Coursework:** Python, OOP, Multivariable Calculus, Linear Algebra, Discrete Math, Physics II

Acton-Boxborough Regional High School

Acton, MA

H.S. Diploma | GPA: 4.71/5.00

- **AP Coursework:** Calculus BC (5), Physics C: Mechanics (5), Statistics (5), Biology (5), Microeconomics (5), Macroeconomics (5), English Literature (5), U.S. History (5), Spanish Language (4), Psychology (4)

Projects

iRobot Maze Solver and Autonomous Delivery

December 2023

- Coded iRobot Roomba in Python to autonomously solve mazes of any size and deliver objects to specified locations. Incorporated fail-safe behaviors and asynchronous functions allowing for simultaneous actions
- Programmed Roomba to avoid obstacles and calculate optimal route using infrared sensor readings and automatic navigation readjustments. Developed algorithm to constantly adjust to new environments

Sudoku Puzzle Solver

January 2024

- Built and implemented backtracking algorithm in Python to recursively solve any valid Sudoku puzzle. Processed datasets from online databases to verify code with 99% test accuracy.

Experience

Deep Learning Playground

Atlanta, GA

Software Engineer

August 2023 – Present

- Programmed deep learning website using Python, Golang, TypeScript, and CSS in which users can experiment with AI/ML without any prior coding experience.
- Developed code in Golang and CSS to improve developer velocity for 20+ developers by updating retrieval source of frontend secrets and making user interface more intuitive through enhanced navigation bar

Delta Upsilon Fraternity

Atlanta, GA

Athletic Chair

December 2023 – Present

- Organized intramural sports and school spirit activities for 150+ students. Supervised budget of \$2,000+

Overbrook Scientific

Acton, MA

Sales and Marketing Intern

June 2022 – August 2022

- Researched and compiled the pricing models of 10+ competitors via Excel/Sheets under Overbrook's CEO, Ted Palashis. Proposed and implemented new pricing points for 15+ products
- Cleaned 1k+ datasets of outdated contact lists. Facilitated virtual outreach to 500+ potential clients

Horizons Debate Nonprofit

Acton, MA

Vice President

September 2020 – September 2022

- Managed \$7,000+ of financial activity via Sheets. Supervised donation process to BID Medical Center
 - Developed curriculum for 150+ students focused on virtual engagement and accessible content.
- Organized literature review and argument-construction workshops on FinTech and humanitarian policies

Skills, Awards, and Activities

Skills: Python, Object Oriented Programming, HTML/CSS, MATLAB, Golang, TypeScript

Awards: Georgia Tech Faculty Honors (2023), 4x Debate National Qualifier & 2x MA State Quarterfinalist, NMSQT Finalist (2023), Gold President's Volunteer Service Award (2022), NSDA Academic All-American (2022)

Activities: Data Science @ GT (Deep Learning Playground), Delta Upsilon Fraternity (Georgia Tech Chapter)