

Matthew Sun

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EDUCATION

University of Michigan

Ann Arbor, MI

Expected Graduation: April 2026

GPA 3.7/4.0

Bachelor of Science, Computer Science - Intended Asian Languages and Cultures minor

• Notable Classes: Elementary Programming Concepts, Discrete Mathematics, Programming and Data Structures, Web Design, Development, and Accessibility.

Hopkins School

New Haven, Connecticut

August 2018 - June 2022

• 3.8/4.0 GPA, 1550 SAT

PROJECTS

Image Resizing

- Constructed a content-aware image resizing program in C++, using a seam-carving algorithm.
- Identified and removed “seams” in images that contained less significant pixels, preserving the most critical components of the image.
- Implemented ADTs, Streams, and IO operations to streamline image processing.

Statistics

- Designed a program to analyze data from a relationship research study, incorporating the C++ machine model.
- Applied procedural abstraction techniques to manage and process complex datasets efficiently.
- Implemented classes and file IO operations.

Elevators - Reach

- Programmed an elevator servicing command-line game using C++, modeled after real-world systems.
- Incorporated industry-standard object-oriented design principles and elements of artificial intelligence.
- Refined AI algorithm using rigorous benchmarks and performance evaluations against previous solutions.
- EECS 183 Showcase **Grand Prize Winner**.

EXPERIENCE

The Future Sphere

Coding Teaching Assistant

January 2021 - February 2022

- Provided Javascript and C++ guidance to middle and high school students.
- Coordinated weekly informational sessions covering basic web design concepts.

Asian American Association

Event Chair

September 2022-Present

- Direct and coordinate events that celebrate and honor the cultures and traditions of A/PIA.
- Manage event logistics and relay responsibilities to other branches of the organization.

Chipotle Mexican Grill

Crew Member

April 2023-August 2023

- Work in a fast-paced environment, adapting to fill cash, line, and DML positions.
- Use strong communication skills to both interact with customers and collaborate with coworkers.

Sneaker Reselling Business (Self)

May 2023-Present

- Buy and sell sneakers, collectibles, and clothes using automated checkout bots.
- Research and assess product demand based on sizes, styles, and social media activity.
- Evaluated historical data of previous items to make decisions to keep or sell items.

SKILLS & INTERESTS

Technical Skills: Javascript, C++, HTML, CSS, Python, R

Additional Skills: Proficient in Mandarin, listening proficiency in Spanish

Fields of Interest: Computer Science, UX Design, Web Development