

Emma Chio

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EDUCATION

Case Western Reserve University

M.S. in Biostatistics

Cleveland, OH

Jan 2025 - May 2026

Case Western Reserve University

B.A. in Computer Science

Cleveland, OH

Aug 2022 - May 2026

B.A. in Biology

- Cumulative GPA: 3.84

- *Relevant Coursework:* Data Structures, Operating Systems, Algorithms, Machine Learning, Intro to AI, and Data Science, Statistics in R

Stuyvesant High School

Regents Diploma

New York, NY

Sep 2018 - June 2022

PROJECTS

Roommate Finder

Present

- Developed a roommate-matching website using HTML, CSS, and JavaScript, integrating an SQL database to store and manage user profiles, preferences, and matching criteria
- Employed data analysis to match users with the most suitable roommates based on shared interests, living preferences, and habits

Machine Learning Iris Data Set

Dec 2024

- Utilized Python to produce neural network with Tensorflow and Scikit-learn to classify 150 points for accurate predictions
- Automated data preprocessing and visualization workflows using Matplotlib and Pandas to streamline analysis

Recipe Data Web Scraping

Sep - Dec 2024

- Applied Python scripting to automate web scraping of 120+ recipes from online cookbooks
- Collaborated on a team to design and implement dynamic front-end using JavaScript, HTML, CSS, and Node.js ensuring a user-friendly interface

Jan-May 2024

Spotify API Data Pulling

- Wrote Python scripts to automate data extraction and analysis of 1,000+ songs using Spotify's API
- Designed data-driven insights by applying data visualization techniques with Seaborn and Matplotlib
- Analyzed patterns in user preferences, automating feature engineering tasks for further analysis

SKILLS AND INTEREST

- **Technical Languages:** R Studio, Python, Java, Terminal, Arduino, Github, Matlab, Verilog, C, Javascript, HTML, CSS, Node.js
- **Skills:** AWS Tools, Microsoft Excel, Microsoft Office, Adobe, Photoshop, NYS EMS certified

EMPLOYMENT

Amazon Web Services (AWS)

Cleveland, OH

Software Engineer Intern - Invoice Compliance

Jan 2024- Present

- Engineered a real-time data-visualization platform that automatically refreshed invoice information and kept pace with AWS's creation rate of ~100 new invoices per minute.
- Developed platform that cut analysis time down and improved clarity around billing irregularities

Coalition of Asian-American IPA - Provider Relations Department

New York, NY

Intern

Jun -Aug 2024

- Reduced manual review time by 25%, improving accuracy to automate large scale data validation
- Created step-by-step technical documentation for internal team use, ensuring consistent process execution
- Collaborated with team members to identify inefficiencies and deliver automation-driven improvements

LEADERSHIP AND ACTIVITIES

Girls Who Code

Cleveland, OH

Lead Facilitator

Sep 2022 - Present

- Leading the design and implementation of Python and Arduino lessons for 15 students, fostering engagement through interactive, hands-on activities
- Documenting the curriculum and developed comprehensive guides to support future facilitators

Undivided

Cleveland, OH

Treasurer/Fundraising Committee Member

Sep 2022 - Present

- Coordinating school dance team for fundraising activities, raising over \$1000 through coordinated events and initiatives, demonstrating financial strategy and management skills
- Managed an \$8000 budget, optimizing expense tracking and financial planning using Excel-based financial models