

Alexander Ma

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EXPERIENCE

Paramount — Software Engineering Intern

JUNE 2023 - AUGUST 2023 | New York, NY

- Worked with the video infrastructure team to create a calendar showcasing broadcast schedules using NextJS and ReactJS
- Dynamically modified API endpoints according to requested data to display accurate showtimes for 3 different TV networks
- Implemented AWS S3 deployment, significantly reducing showtime retrieval time from hours to seconds, enhancing accessibility and efficiency

Connected Experience Lab — Web Developer & Designer

MAY 2022 - MAY 2023 | Pittsburgh, PA

- Built website to show trends in diversity for OSS through captivating graphs and visuals; met weekly with team to report progress and delegate tasks
- Conceptualized and translated wireframes into code using HTML, Tailwind CSS, and JavaScript, along with Highcharts library for data visualizations
- Prototyped page layouts with Figma and conducted user research on 20+ volunteers to improve usability and increase task completion by 70%

Carnegie Mellon University — Undergraduate Researcher

MAY 2021 - AUGUST 2021 | Pittsburgh, PA

- Collaborated with other team members to research mental health crisis and explored solutions involving technological innovations
- Identified drawbacks of current solutions to mental health through semi-structured interviews
- Presented a proposal for a virtual AI therapist and included implementation

Asian Student Association — Vice President

NOVEMBER 2021 - PRESENT | Pittsburgh, PA

- Assisted in managing an organization of 300+ members and acted as one of the main representatives to the Carnegie Mellon campus community
- Coordinated and executed 5+ events per semester with 100+ in attendance to enhance public understanding of Asian cultures
- Overhauled outdated content on website to boost traffic by 200%

Phi Delta Theta — Designer & Community Engagement

NOVEMBER 2021 - PRESENT | Pittsburgh, PA

- Designed 5+ promotional posters and merchandise using Adobe Creative Suite to help expand brand identity across campus for fraternity
- Coordinated biannual speaker events to educate 75+ brothers on fraternity history and acted as main point of contact for organizing composite

PERSONAL PROJECTS

Spotify Statistics Application — ReactJS

SEPTEMBER 2022 | Personal Project

- Designed an application for users to visualize personal Spotify data, including top tracks, artists, and genres using the Spotify Web API
- Built a dynamic interface in ReactJS, with a focus on user engagement, where personal environments can be customized with drags and clicks
- Responsible for UI design decisions and created graphics using Figma to fit a “vintage computer aesthetic”

Volleyball Game — Python

MAY 2021 | Academic Project

- Simulated gravity and implemented concepts of projectile motion to program a game of volleyball in Python
- Utilized Tkinter to generate interface, programmed an AI to hit ball back by predicting where it would land, and included randomly spawning powerups

EDUCATION

Carnegie Mellon University

December 2023 | Pittsburgh, PA

Bachelor of Science in Information Systems

Additional Major in Human-Computer Interaction

Minor in Game Design

GPA: 3.75/4.0

Dean's List with High Honors

LINKS

github.com/alexanderma

linkedin.com/alexanderma

SKILLS

Programming

Python, Java, ReactJS, NextJS, HTML, CSS, JavaScript, AWS Tailwind, MUI, Bootstrap, jQuery, R, C#, SQL, MongoDB, Ruby, Rails, Git, Swift, Xcode

Design

Figma, Photoshop, Unity, Illustrator, User Experience, User Research, Wireframing, Prototyping, Usability Tests

Languages

English, Chinese, Spanish

RELEVANT COURSEWORK

Mobile Application Development

Application Design and Development

Fundamentals of Programming

Programmable User Interfaces

Interaction Design Studio

User-Centered Research and Evaluation

Database Design and Development

Introduction to Data Structures

Tools for UX Design