

# Ian Mei

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## EDUCATION

### University of Massachusetts Amherst

Amherst, MA

*Bachelor of Science in Computer Science; GPA: 4.00/4.00*

*Expected Grad: May 2027*

**Relevant Coursework:** Object Oriented Design, Linear Algebra, \*Theory of Computation,\*Multi-Variable Calculus, \*Programming in C, \*Data Structures

## EXPERIENCE

### Taiwanese and Chinese Students' Association

Amherst, MA

*Freshman Representative*

*September 2023 - Present*

- Fostered meaningful connections with a diverse range of organizations to enhance collaboration and engagement.
- Strengthened partnerships with the general body as well as other cultural organizations through effective communication, contributing to a more interconnected community.
- Spearheaded planning and execution of numerous high-impact events, demonstrating strong organizational skills.
- Exemplified adept event management skills by organizing flawless events, skillfully navigating logistics for over 500 participants, and delivering a memorable experience marked by seamless coordination and attendee satisfaction.

### Town of Brookhaven

Brookhaven, NY

*Beach Lifeguard*

*June 2023 - August 2023*

- Supervised a bustling beach with over 100 visitors daily, ensuring a safe and enjoyable environment.
- Collaborated with a dynamic lifeguard team, ensuring vigilant coverage and swift emergency response.
- Implemented thorough safety protocols, contributing to incident-free days and fostering a secure beach experience.

### Aquatech Management of Long Island, Inc.

Holtsville, NY

*Pool Lifeguard*

*August 2021 - September 2022*

- Independently managed lifeguard duties for a solo-guarded community pool, ensuring the safety of patrons.
- Conducted regular checks on pool water pH and chlorine levels, maintaining optimal water conditions for a safe and enjoyable swimming environment.
- Administered prompt and efficient first aid to individuals requiring medical attention.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, C, C++, HTML, CSS, Dart

**Technologies:** Git, VS Code, LaTeX, Keras, Arduino, Flutter, Android Studio, Flask

## PROJECTS

### Personal Goal Tracker/ Calisthenics Tracker | *Flutter, Dart*

December 2023 – Present

- Designed an all-in-one personal goal tracker with daily tasks for a holistic approach.
- Enabled users to share workout videos with friends or groups, fostering a supportive fitness community.
- Incorporated streak features for consistent daily engagement and progress tracking.
- Includes paths/progressions for calisthenics along with videos for new users getting into calisthenics.

### UMass Dining Wrapped | *Python, Pandas, HTML/CSS, JavaScript, Flask*

November 2023 – December 2023

- Developed a personalized dining history application, offering insights akin to Spotify Wrapped for users.
- Extracted user data from the GET Mobile page using credentials, transformed it into a Pandas DataFrame and applied cleaning and reformatting for enhanced usability.
- Provided users with detailed statistics on their UMass dining habits, including metrics like the number of breakfasts consumed at specific dining halls and expenditure at various campus vendors.
- Built a full-fledged front end with over 100 users to display information with animations and graphics using Flask, HTML/CSS, and JavaScript.

### LockIn | *Python, Keras, Arduino*

November 2023

- Pioneered the development of an application leveraging computer vision to track user attention in real time.
- Implemented a sophisticated computer vision system using OpenCV and Keras to accurately detect and analyze facial features, specifically focusing on the user's eyes.
- Devised an integrated alarm and notification system to alert users when their attention waned, ensuring timely re-engagement with the screen.
- Developed a responsive water gun system triggered when the user's attention was diverted, combining software and hardware for an immersive experience.