

# Ian Mei

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## EDUCATION

### University of Massachusetts Amherst

Amherst, MA

*Bachelor of Science in Computer Science; GPA: 3.96/4.00*

*Expected Graduation: May 2027*

**Relevant Coursework:** Object Oriented Design, Linear Algebra, Theory of Computation, Multi-Variable Calculus, Programming in C, Data Structures, Intro to Algorithms\*, Programming Methodology\*, Reasoning Under Uncertainty\*

## TECHNICAL SKILLS

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

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

## PROJECTS

### Data Structures and Algorithms Visualizer | *Javascript*

*June 2024 – Present*

- Developed an interactive tool to visualize and animate data structures (arrays, linked lists, trees, graphs) and algorithms (Bubble Sort, Merge Sort, Quick Sort, Dijkstra's, A\*, BFS/DFS) using HTML, CSS, and JavaScript.
- Designed a user-friendly interface with controls for starting, pausing, and resetting visualizations, ensuring an intuitive experience.

### Handwritten Digit Recognizer | *Python, Javascript*

*May 2024*

- Developed a neural network model to categorize handwritten digits with a 99.4% accuracy, and constructed a front end that takes a user's drawing, and normalizes the image into the model, displaying the predicted value.

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

*November 2023 – April 2024*

- Developed a personalized dining history application, offering users insights akin to Spotify Wrapped.
- Extracted user data with over 1000 entries from the GET Mobile page using user credentials, then cleaned and reformatted for enhanced readability and 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.
- Designed an algorithm enabling users to have personalized titles, based on their dining habits.
- Created a full-fledged front-end, which allowed over 100 users to view their information with full animations and graphics.

### 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.
- Constructed a responsive water gun system triggered when the user's attention was diverted, combining software and hardware for an immersive experience.

## EXPERIENCE

### Jones Beach Lifeguard Corps

Long Island, NY

*Beach Lifeguard*

*June 2024 - Present*

- Ensured swimmer safety, monitored beach, performed rescues, and administered first aid and CPR as needed.
- Maintained compliance with beach rules, conducted safety inspections and provided excellent customer service to beachgoers.
- Participated in regular training, physical conditioning, and safety demonstrations to be prepared for emergencies.

### Taiwanese and Chinese Students' Association

Amherst, MA

*Event Coordinator*

*September 2023 - Present*

- 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.
- Strengthened partnerships with the general body and other cultural organizations through effective communication, enhancing collaboration and engagement.