Ian Mei

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EDUCATION

University of Massachusetts Amherst | Commonwealth Honors College   Amherst, MA
*Bachelor of Science in Computer Science; **GPA: 3.97/4.00***   *Expected Graduation: May 2026*
Relevant Coursework: Linear Algebra, Discrete Math, Multi-Variable Calculus, Programming in C, Data Structures, Algorithms, Probability, Data Management/Applications, Machine Learning, Software Engineering

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C, C++, HTML/CSS, Dart, Typescript, SQL, Vue
Technologies: Git, VS Code, LaTeX, Keras, Arduino, Flutter, Android Studio, Flask, Tensorflow, Numpy, Firebase, Next.js, React

EXPERIENCE

UMass Amherst Learning Resource Center (LRC)   Amherst, MA
Tech Lead   *November 2024 - Present*
- Responsible for upkeep and updating of the LRC website and Nexus, a Django based internal application, simplifying tasks and workflow, deploying with AWS EC2.
- Coordinate and implement the needs of 4 departments heads, presenting progress with weekly meetings.
- Streamline and debug old features, and develop new features for giving university students a place to search for research opportunities and contacting facility.

BUILD UMass   Amherst, MA
Software Developer   *Sep 2024 - Present*
- Develop a full-stack web application for the UMass Pre Law club to post their publications, working with a small group of software developers.
- Implement a complete backend with Firebase, ensuring data integrity and no vulnerabilities.
- Prototyped and designed front end interfaces with Tailwind and Vue, basing it using a full mockup Figma Design.

PROJECTS

UMass BITES | *Python, React(Next.js), Firebase*   *Nov 2024*
- Designed and implemented modular nutrition app to monitor daily dietary intake, enhancing user health tracking.
- Scraped nutritional data for over 8,000 UMass campus foods, appending 15+ nutritional details for each item.
- Optimized backend data models, ensuring high-performance data handling and smooth and quick user experience.
- Developed a custom recommendation algorithm with 6 parameters to suggest currently available meals aligned with users' nutritional goals, increasing user engagement and personalization.

UMass Dining Wrapped | *Python, HTML/CSS, JavaScript*   *Nov 2023 – Apr 2024*
- Developed a personalized dining history application, offering users insights akin to Spotify Wrapped.
- 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.
- Extracted user data with over 1000 entries from the GET Mobile page using user credentials, then cleaned, reformatted and made data models for a 64% decrease in load times with enhanced readability and usability.
- Created a full-fledged front-end, which allowed over 100 users to view their stats with full animations and graphics

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.

LEADERSHIP

Taiwanese and Chinese Students' Association   Amherst, MA
Event Coordinator   *Sep 2023 - Present*
- Spearhead planning and execution of numerous high-impact events, demonstrating strong organizational skills.
- Exemplifying 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.
- Negotiated and managed contracts with guest artists valued over $10,000, ensuring compliance with school policies.