

# Ian Mei

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## EDUCATION

### University of Massachusetts Amherst

Amherst, MA

*Bachelor of Science in Computer Science, Minor in Business; GPA: 3.96/4.00 Expected Graduation: May 2027*

**Relevant Coursework:** Object-Oriented Programming, Data Structures, Algorithms, Data Management/Applications, Machine Learning, Linear Algebra, Software Engineering, Discrete Math, Management, Accounting, Digital Forensics

## TECHNICAL SKILLS

**Languages:** Python, HTML, CSS, C, SQL, TypeScript, JavaScript, Java, Rust, C++

**Technologies:** Django, React, Nodejs, AWS, AutoGen, Git, Docker, PostgreSQL, Flask, Tensorflow, MongoDB, Azure

## EXPERIENCE

### North Atlantic Industries

Bohemia, NY

*Software Engineer Intern*

*May 2025 – Aug 2025*

- Improved baremetal runtime performance by 12% by translating bare-metal C code to Rust with zero-cost abstractions, while designing modular architecture and C interoperability to enable incremental adoption.
- Built and deployed an internal chatbot powered by a Microsoft GraphRAG knowledge graph of 10,000+ SQL inventory entries, enabling employees to efficiently search and understand part relationships.
- Developed a Model Context Protocol(MCP) server with FastMCP to provide Claude Code agents access to internal tools such as search and document retrieval using VectorRAG over hardware documentation stored in a structured database, enabling agent-level understanding of company systems.

### UMass Amherst Learning Resource Center (LRC)

Amherst, MA

*Tech Lead*

*November 2024 - Present*

- Maintain and update the LRC website and Nexus, a Django based internal application, used by 500+ LRC employees scheduling tutoring sessions and for payroll simplifying workflows, deploying with AWS EC2.
- Coordinate the needs of 4 departments heads, providing insight and presenting progress with weekly meetings.
- Performing migration from AWS EC2 to AWS RDS PostgreSQL and ECS, reducing costs by 21%.
- Streamline and debug legacy features, and develop new database search features for the Office of Undergraduate Research and Studies (OURS), giving all university students over 500 research opportunities to search from.

## PROJECTS

### Google Suite Assistant | Python

*May 2025 – Present*

- Engineered a multi-agent autonomous system using Microsoft AutoGen framework to orchestrate Google Workspace productivity workflows, integrating Google Cloud APIs to automate routine tasks and enhance user productivity.
- Developed a secure Model Context Protocol (MCP) server architecture with OAuth2 authentication and stateless session management, enabling concurrent multi-user access while maintaining data isolation and optimized responses and prompts to be LLM friendly, decreasing token usage by 30% and increasing efficiency of the agents.
- Built a Streamlit-based frontend, featuring a homepage recap of recent emails and tasks, a real-time display of agent-to-agent reasoning and tool usage, and an interactive chat interface for user-agent interaction.

### DuckPond | Python, Next.js, MongoDB

*Feb 2025 – May 2025*

- Designed and developed a centralized internal notification platform for Duck Creek Technologies, integrating third-party apps, eliminating fragmented communication across 3,000+ employees. Built messaging modules for different departments, ensuring formatting using Pydantic, storing data via REST APIs in MongoDB Atlas.
- Implemented robust inbox segmentation with advanced search and filters, reducing missed alerts by 30% and boosting responsiveness. Integrated an AI-powered assistant trained on company data schemas to auto-generate compliant, tailored messages- accelerating workflows for policy writers and claims adjusters by 45%.

## LEADERSHIP

### Taiwanese and Chinese Students' Association

Amherst, MA

*President*

*Sep 2023 - Present*

- Led a 18-member board through organizational vision and semester planning, driving membership growth, cross-cultural collaboration, and community outreach via targeted programming and partnerships.
- Oversaw end-to-end event management, sponsorship procurement/execution, and food catering for programs exceeding 500 attendees, ensuring seamless logistics, high engagement, and consistent attendee satisfaction.
- Negotiated, drafted, and managed contracts totaling over \$10,000 with guest performers and vendors, ensuring legal compliance with university policies, smooth day-of execution, and strict adherence to event budgets.