

# LIJUN CAI

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## Education

### University of Massachusetts Amherst

Sept 2023 - Present

*Bachelor of Science in Computer Science*

*Amherst, MA, USA*

- **Chancellor's Award:** \$18,000 p/a
- **Credits:** 97 (by Dec 2024); **GPA:** 3.966; **Expected Graduation:** December 2026
- **Relevant Coursework:** Machine Learning (CS589), Mobile Health Sensing (CS328), Programming Methodology (CS 220), Artificial Intelligence (CS328), CS Principles (CS230)

## Experiences

### AI Camera Team, Huawei Technologies Japan | ML, CV, PyTorch

May 2024 - Aug 2024

*ML Intern, On-site*

*Tokyo, Japan*

- Collaborated closely with a senior engineer to enhance photographic quality through ML models, focusing on image sharpening, denoising, and super-resolution tasks.
- Optimized neural networks using PyTorch to enhance image processing capabilities, improving model efficiency and contributing to better image output.
- Gained hands-on experience working in Huawei's internal ModelArt cloud environment, supporting large-scale AI model training and deployment.
- Improved problem-solving and technical skills through real-world applications of machine learning in a fast-paced, collaborative team environment.

## Skills

**Areas:** Machine Learning, Web Development (Frontend/Backend)

**Programming languages:** Python, JavaScript (TypeScript), C, HTML, CSS

**Frameworks & Tools:** Git, React, Expo, MongoDB, PyTorch, OpenCV

## Projects & Awards

### "LendIt" Web App, HackUMass Hackathon XI | React, MongoDB, Auth0

Nov 2023

**Awards:** Wolfram Alpha Letter Award (top 7 out of ~90), Best Sustainability Design

- Designed and programmed a React web app for university students to loan out and borrow items to save money and improve sustainability on campus.
- Developed working user system with Auth0, as well as using MongoDB for backend database and connecting it with React & SCSS frontend.
- Used Git workflow in a group of 4 for backend and frontend development.

### "Acaredemy", Conrad Innovation Challenge | PyTorch, OpenCV, Python

Jan 2022

**Awards:** Chinese Division Silver Medalist (total ~30 teams)

- Designed a facial recognition system to improve online class quality and a violence recognition system to combat school bullying.
- Involved training and adjusting a facial recognition model and a violence detection model for real-life video use, achieving an overall accuracy of 85%.
- Deployed model on self-developed website for real time detection demo on camera stream.

## Extracurriculars

### UMass Amherst Chinese Students and Scholars Association (CSSA)

Sept 2023 - Present

*Treasurer & Head of Publicity Department*

- Managed a budget of approximately \$5,700 in expenditures, while securing \$7,000 in sponsorship revenue, resulting in a surplus and ensuring the successful execution of multiple high-profile events.
- Leads ~20 people, organizing activities such as online gaming competitions, Chinese festival celebrations, planning social media posts, and sponsorship events.