

Yingqi Liu

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EDUCATION

The City College of New York New York, USA
The Grove School of Engineering, Master of Science Expected June 2027

- Major: Computer Science
- Relevant Courses: Advanced Algorithms, Database Systems, Computer Vision, Data Privacy
- Cumulative GPA: 3.9

Dalian University of Technology Dalian, China
(National Demonstration) School of Software Technology, Bachelor of Engineering June 2025

- Major: Software Engineering
- Relevant Courses: Mathematics for Computer Science, Data Structure and Algorithm, Software Engineering, Database System, Operating System, Computer Network
- Cumulative GPA: 3.68

EXPERIENCE

Camera Calibration for Boston Spot New York, USA
Research March 2026 – Present

- Impact: Created a new camera calibration algorithms that significantly enhanced calibration efficiency.
- Tools Used: Python, OpenCV, Matplotlib, Unity.
- Description: We created a Virtual Rectangle algorithm for camera calibration. This algorithm can estimate automatically parameters, maintaining rotational errors below 5° and relative translation errors of approximately 6% even under image and trajectory localization disturbance environments.

Neusoft Corporation - Bug Management System Dalian, China
Backend Development September 2024 – December 2024

- Impact: Be piloted within Neusoft and effectively improved the project team's efficiency.
- Tools Used: Java, Spring/Spring Boot, SQL.
- Description: I collaborated with a team under Neusoft staff guidance to develop a bug management system.

Design of Image Recognition Algorithm Dalian, China
National Innovation Project March 2023 – April 2024

- Impact: Rated as a national-level undergraduate innovation project with 5,000 Chinese yuan funding.
- Tools Used: Python, PyTorch, VHDL, Shell.
- Description: We deployed an image detection algorithm model on the PYNQ-Z2 board. It is capable of face detection and mask-wearing determination via camera.

HONORS & REWARDS

- National Encouragement Scholarship, Ministry of National Education (Top 3%) December 2024
- Learning Excellence Scholarship, Dalian University of Technology (Top 15%) December 2024
- National Encouragement Scholarship, Ministry of National Education (Top 3%) November 2023
- Technology Innovation Award, Dalian University of Technology (Top 4%) September 2022
- Mathematical Contest In Modeling (MCM) Meritorious Winner, COMAP (Top 7%) May 2022

SUMMARY OF QUALIFICATIONS

- **Programming Languages:** Python, Java, C/C++, SQL
- **Frameworks & Libraries:** PyTorch, Spring Boot
- **Developer Tools:** Git, Linux, Shell, \LaTeX
- **Languages:** Mandarin Chinese (Native), English (Fluent)