

# Yanchun Lai

Kirkland, Washington / Ithaca, New York

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## EDUCATION

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**Cornell University, Ithaca, NY**

2024 - present

- **Intended Major & Minor:** Computer Science & Operations Research and Management (College of Engineering)
- **GPA:** 3.3   Linear Algebra, Calculus 3, Intro Operations Research, Object-Oriented Programming, and Data Structures

**Juanita High School, Kirkland, WA**

2020 - 2024

## EXPERIENCES

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**Operations Research Scheduling Team @ Cornell University**

2025 - present

- Part of a team that produced an optimal final exam schedule for the university registrar.
- Developed multiple feasible exam timetables by experimenting with existing optimization models.
- Implemented research insights to enhance the exam timetabling codebase, attempted to reduce conflicts and soft constraint violations for future exam scheduling.

**Liquid Propulsion Club @ Cornell University**

2024 - present

- Responsible for building the ground support system for fueling the rocket and other ground-control operations before firing.
- Currently working on building the rocket's flight computer that calculates trajectory and manages flight data for the high-power rocket.

**AI4ALL Program @ Seattle University**

2022

- Learned from law enforcement professionals about ethical challenges in the AI and criminal justice interdisciplinary applications.
- Introduced to the use of machine learning models – learned to train them on crime databases to reduce bias inherent in data analysis.

**Competition VEX Robotics - Team Member**

2021 - 2023

- Achieved second place in the state competition throughout the season.
- Worked on robot designs using CAD and other means of design, managed parts, fabricated custom parts, and assembled/adapted designs.
- Created driver and autonomous code for the robot in C++, then tested and ensured the functionalities of the robot.

**Competition Technology Student Association @ Juanita High School**

2021 - 2023

- Achieved top five placement in Washington State (software development category).
- Developed web applications to address challenges faced by specific user groups, enhancing effectiveness and usability.
- Advanced through phases of the software development cycle, including design, and working with version control. Gained hands-on experience collaborating in a professional team environment.

**Information Desk Volunteer @ EvergreenHealth, Kirkland (community service)**

2023 - 2024

- Primarily assisted hospital visitors with wayfinding around the building and ensured the smooth operations within the facility. Tasked with occasional errands, such as lab sample deliveries and patient transportation by wheelchair.
- Became familiar with hospital software for doctor office (or patient room) lookup, wheelchair organization.
- Coordinated emergency responses in the facility by alerting and directing hospital personnel.

## RELEVANT SKILLS

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- Strong foundation in Java, Python, C++, and CLIs such as Git. Exposure to full-stack development using Django, Flask, Spring, HTML, CSS, Bootstrap/Tailwind, and REST API.
- Class project experience with CAD and Arduino. Machine-shop trained on mill and lathe.
- Team experience and sharpened communication skills. Ability to learn from documentation and work independently.