

# Allen Liu

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## PROFESSIONAL EXPERIENCE

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### WOODBIDGE RECREATION DEPARTMENT

Swim Instructor

**Woodbridge, CT**

*November 2021 – Present*

- Taught children basic swimming techniques, such as treading water and the four strokes
- Enforced pool rules and ensured safe use of all equipment
- Identified swimmers' abilities and encouraged them to gain confidence in the water

### NEW HAVEN COUNTRY AND WOODBRIDGE POOL CLUBS

Lifeguard - Part Time Seasonal Positions

**New Haven, CT**

*May 2022 - August 2022*

- Red Cross First Aid AED/CPR certified
- Enforced pool rules and monitored patrons' safety and adherence to rules
- Kept pool, deck, and facilities clean and operational
- Treated patrons with minor medical injuries/conditions

### THE LIU GROUP, YALE UNIVERSITY ENERGY SCIENCES INSTITUTE

Laboratory Research Assistant and Intern - [liu-research.com/team](https://liu-research.com/team)

**West Haven, CT**

*June 2022 - Present*

- Worked with Dr. Mengxia Liu to fabricate novel organic perovskite solar cells
- Helped set up equipment for Dr. Liu's new laboratory over the summer
- Collaborated with colleagues to utilize machine learning methods to improve designs

### ARBITRAGE OPS

DEVELOPER AND CTO - [x.com/ArbitrageOps](https://x.com/ArbitrageOps) and [arbitrageops.com](https://arbitrageops.com)

**Miami, FL**

*August 2022 - Present*

- Designed fault-tolerant restocking system to handle millions of transactions per second
- Formulated and executed technology roadmap aligned with business objectives
- Developed and oversaw proprietary software systems designed to identify and exploit arbitrage opportunities

## HONORS AND AWARDS

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- 1st Place, Life Science Teams CT-STEM Science Fair, '21
- 1st Place and High Honors, Life Science Teams Connecticut Science and Engineering Fair, '21
- Stanley Black & Decker Applied Technology Award, '21 & '22
- CSI CT Swim Scholar Athlete, '21 & '22
- All-SCC, All-State, and High School Record Holder '23
- Connecticut Association of Public School Superintendents Award '23
- The National French Exam Gold Award (95+ percentile) '21
- President's Volunteer Service Gold Award (250+ hours) '22
- 4 Year Full Tuition Army ROTC Scholarship
- Connecticut Lieutenant Governors Computing Challenge Winner '22

## ADDITIONAL SKILLS

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- Proficient in MS Office and programming languages of Python, Swift, Java, Javascript, Golang, and Rust
- Fluent in Mandarin
- Red Cross CPR certified
- Junior Firefighter since March '22
- AWS Certified Solutions Architect

