

# Alan (Tsz Chai) Liu

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## EDUCATION

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### Abbey Park High School

Junior

GPA: 4.0; Honour's Roll 2023-2025

Relevant Courses: Computer Science 11, Physics 11, Functions 11

Relevant Activities: Co-founder and President of the Data Science & Algorithms Club

Oakville, ON

Expected June 2027

## WORK EXPERIENCE

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### University of Toronto Mississauga

Machine Learning Research Assistant

- Machine learning research assistant under the tutelage of Dr. Rutwa Engineer
- Collaborated with the Human Feedback Foundation and the Linux Foundation
- Spearheaded documenting and cataloging weekly meetings

Mississauga, Canada

Jun 2025 – Present

### Ember Hacks

Lead Web Developer

- Built and maintained the Ember Hacks website using React and Next
- Constructed of a Three.js and Blender model landing page design
- Collaborated with design team to create pixel-perfect UIs

Mississauga, Canada

Jun 2025 – Present

### Jam Hacks

Web Developer

- Utilized Figma to layout the Jam Hacks website
- Maintained the Jam Hacks website for its 10th iteration using React
- Designed a Discord bot capable of handling hacker verification

Waterloo, Canada

Aug 2025 – Present

## VOLUNTEERING

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### EurekaHacks

Judge

- Judged over 150 students' high school project submissions for EurekaHacks 2025

Oakville, ON

April 2025

### IncubatorHacks

Mentor & Judge

- Provided inspiring mentorship to hackers who are beginning their journey
- Judged for IncubatorHacks 1, with over 150 university and high school participants

Waterloo, ON

Nov 2024

## ADDITIONAL

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**Technical Skills:** Advanced in MongoDB, Express.js, FastAPI, React, Node.js, HTML/CSS, Figma; Proficient with Yolo, Tensorflow, Ethereum; Well-suited in Unreal Engine 5, Unity, Blender, FL Studios

**Languages:** JavaScript, TypeScript, Java, C#, Python, Solidity

**Awards:** Best UI/UX - HacktheRidge 2024; Best Hack for a Social Cause - Hack404; Distinction: Pascal, Cayley, COMC; Distinguished Scholars - International Research Olympiad

## REFERENCES

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### Dr. Rutwa Engineer

Assistant Professor of Mathematical and Computational Sciences

rutwa.engineer@utoronto.ca

### Adam Rivard

Computer Science Teacher

rivarda@hdsb.ca