Alan (Tsz Chai) Liu

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EDUCATION

Abbey Park High School   Oakville, ON
Sophomore   Expected June 2027
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

WORK EXPERIENCE

University of Toronto Mississauga   Mississauga, Canada
Machine Learning Research Assistant   Jun 2025 – Present
- 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

Ember Hacks   Mississauga, Canada
Lead Web Developer   Jun 2025 – Present
- 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

VOLUNTEERING

EurekaHacks   Oakville, ON
Judge   April 2025
- Judged over 150 students' high school project submissions for EurekaHacks 2025

IncubatorHacks   Waterloo, ON
Mentor & Judge   Nov 2024
- Provided inspiring mentorship to hackers who are beginning their journey
- Judged for IncubatorHacks 1, with over 150 university and high school participants

150+ Hours of Community Service

ADDITIONAL

Technical Skills: Advanced in MongoDB, Express.js, FastAPI, React, Node.js, Javascript, HTML/CSS; Proficient in Python, yolo, tensorflow, Typescript; Well-suited in Unreal Engine 5, Unity, Blender, FL Studios
Languages: Fluent in English, Mandarin; Conversational Proficiency in French
Certifications: 24-25 Wharton Global High School Investment Competition, Skills Ontario 2023 Lego Mechanical Engineering
Awards: Best UI/UX - HacktheRidge 2024; Distinction: Pascal, Cayley, COMC; Distinguished Scholars - International Research Olympiad

REFERENCES

Dr. Rutwa Engineer
Assistant Professor of Mathematical and Computational Sciences
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Adam Rivard
Computer Science Teacher
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