Yiyi Xu

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EDUCATION

University of Toronto — Toronto, ON
Bachelor of Applied Science in Engineering Science — *Expected June 2028*
- Activities: Intramural Volleyball, Formula Racing Team

Crescent School — Toronto, ON
Ontario Secondary School Diploma — *September 2019 - June 2023*
- Headmaster's Honour Roll, Grade 9-12
- GPA: 95%

WORK EXPERIENCE

Head Instructor - Robotics Camp — July 2023 - August 2023
Crescent Camps — *Toronto, ON*
- **Achieved enhanced learning outcomes** for 16 campers weekly over 5 weeks through the development and delivery of engaging robotics lesson plans
- Ensured **effective instruction and motivation** by utilizing various teaching aids, adapting methods based on individual needs related to age, interest, skill, and developmental levels
- Facilitated **open communication with families**, ensuring a positive camp experience through regular updates and prompt resolution of concerns

Curriculum Developer — February 2022 – February 2023
AiTudier — *Remote*
- Adapted a **University of California, Irvine first-year Internet of Things course** into bite-sized lessons for high school-level Computer Science and Electrical and Computer Engineering curriculum
- Worked with a **team of other curriculum developers** to create a cohesive curriculum that aligns with **educational standards and pedagogical best practices** for high school-level courses
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COMMUNITY & LEADERSHIP

Head of Strategy — January 2022 - April 2023
Team 610 (FRC Robotics Team) — *Toronto, ON*
- Led a team of **35+ members** in building a robot for the **First Robotics Competition** for the **2022 and 2023 seasons**
- Represented the team during **Alliance Selection**, actively contributing to **strategy discussions** and **scouting collaboration** with other teams
- Programmed robot **actuator controls**, including **manipulator and cascade**, and developed **autonomous routines**
- Competed at various levels, from **Ontario competitions** to the **World Championships**, showcasing the team's capabilities on a **global stage**

PROJECTS

Wald.io | *React, DALL·E 2, Firebase, Socket.io, Node.js, Express.js* — November 2023
- Hackathon project submission for MHacks 16
- Web-based online multiplayer "Where's Waldo" with AI-generated backgrounds from DALL·E with user input

Amenities Proximity and Education in the US | *Python, LaTeX* — October 2022 - January 2023
- First place submission of STEM Fellowship High-School Big Data Challenge 2023
- Statistics paper that explores the correlation between the number of amenities near a house to demographic and educational metrics

TECHNICAL SKILLS

Languages: Java, Python, Javascript
Libraries: React, React Native
Applications: Adobe Premiere Pro, Google Suite