Darren Liu

(647)468-3499 • Markham, ON • darrrenliu@gmail.com

EXPERIENCE

Programming Lead at FRC Team 7902   Oct 2022 - Present
- Acted as project manager for a team of 6 programmers, set goals, and managed project timeline
- Held weekly meetings teaching the fundamentals of a subsystem-command/OOP approach to coding
- Learned and applied control systems concepts such as PID, feedforward, and odometry
- Involving in wiring, crimping connections, using vision processing client
- Achieved finalist award at Centennial event as therobot operator and judges award at Durham event

Math Instructor at Mathnasium Markham   Aug 2022 - Present
- Helped students learn new math concepts using Socratic questioning and strategic intervention
- Working on a 4:1 ratio, teaching 60+ students per shift
- Saw an improvement in confidence in students from a K to grade 12 level

AliceHacks Outreach Coordinator   March 2023 - Nov 2023
AliceHacks is a hackathon rooted in promoting creativity and imagination.
- Reached over 400 registrants in 30+ different countries with over 90 project submissions
- Reached out to potential sponsors, assisting in acquiring over $1000 from several sponsors
- Planning aspects of the hackathon, including scheduling, prize distribution, workshops, and judging
- Helped run various workshops/events, such as hosting the talent show, casting the League of Legends tournament, and co-hosting the cooking show.

Pure Math Mentee   Jan 2023 - Present
UofT St George | Toronto, ON
- Attend weekly 1:2 sessions learning about topology from a PhD student
- Connecting topology to fields of math such as group theory, abstract algebra, and combinatorics
- Working towards creating a research project answering a question regarding covering maps

UHS DECA Chapter Member   Sept 2022 - Present
- Competed in finance and hospitality events in consecutive years, qualified for and attended provincials
- Reinforced improvisation, public speaking, critical thinking, and general business skills

EDUCATION

Unionville High School | STEM program   Expected Jun. 2024
- Co-president of Physics Club
- Co-founder of STEM fellowship outreach council
- Table tennis team

Relevant Courses:
- Computer Science (ICS20, ICS3U, ICS4U)

ACHIEVEMENTS

- Math contest distinction (top 25%) - CCC 2024, Euclid 2023, CSMC 2023, Cayley 2022
- Performance with honours - COMC 2022, COMC 2023
- Hackathons - 3rd overall at Hack The Valley 7, Best Health Hack at DeltaHacks 9, Best AI Hack at YRhacks 23, 1st Place Overall at TurtleHacks
-

SKILLS

Pyhon | Java | HTML | CSS | Arduino | WPILib | JFrame