

Robert Xing

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EDUCATION

Western University (UWO)

London, ON

Candidate for Bachelor of Engineering Science – BESc, Software Engineering

Sep 2022 – Apr 2027

- **Academics:** Cumulative GPA: 3.9/4.0, Western Scholarship of Distinction
- **Activities & Societies:** Western AI, Western Founder's Network, 'Overhaul' Hackacomp Winner

LANGUAGES & TECHNOLOGIES

Languages: Python, Java, C++, HTML, CSS, JavaScript, Processing

Technologies: React, Node, MongoDB, Express.js, GitHub, Git, Figma

WORK EXPERIENCE & PROJECTS

Kumon Waterloo – Laurelwood

Waterloo, ON

Staff Tutor

Sep 2018 – Aug 2022

- Marked worksheets and provided guidance for senior students during class sessions, increasing in-school grades by an average of 8%
- Introduced 'early learner' students into the program over monthly cycles, guiding 70% of early learners to an honour roll placement within their first three months
- Performed inventory management and worksheet allocation for up to 250 students, occasionally acted as lead instructor for classes of 30+ students, attending both in-person and virtually

K-W Badminton Club

Kitchener, ON

Assistant Coach

Sep 2019 – Jun 2022

- Led sessions for ~8 high school students, sending 3 athletes to county championships
- Assisted with group sessions of 20+ elementary and high school students, providing demonstrations and individual instruction to first-time learners, graduating 4 athletes to club performance teams

[Neighbourhood Santa](#)

MongoDB, Express, Node, Radar.io

- Built frontend using Pug and backend using vanilla JavaScript with Express
- Authenticated users using GitHub OAuth, logging in 7 unique user profiles simultaneously during testing
- Implemented user location data with Radar.io geofencing API, generating addresses accurate within 10 meters

[Robotic Gantry Crane](#)

Python, C++, Arduino, OpenCV, Processing

- Implemented computer vision library from OpenCV to identify target objects, achieving 97% detection accuracy during trials and demonstrations
- Programmed an Arduino to control crane movements based on target object locations, successfully picking up targets in 100% of trials
- Hosted OpenCV processing and crane control algorithms on a local Python server
- Built GUI using Processing G4P GUI library

CERTIFICATES

France Éducation international

Issued June 2022

Diplôme d'études en langue française (DELF) B1