

Tejas Wilkhoo

Waterloo, ON | 647-241-9568 | wilkhoo.tejas@gmail.com | [linkedin.com/in/tejaswilkhoo/](https://www.linkedin.com/in/tejaswilkhoo/) | github.com/tejaswilkhoo

EDUCATION

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science

Sept. 2021 – April 2026

First-year Coursework (to be completed by April 2022): Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Algebra, Calculus 1, Linear Algebra 1, Calculus 2

EXPERIENCE

Computer Science Summer Institute (CSSI) Student

Remote

Google

July. 2021 - Present

- Participated in a selective computer science program based on JavaScript and Firebase taught by Google engineers
- Attended product design and software engineering workshops regarding upcoming technologies
- Explored and added external API functionality (i.e., Giphy API) and JSON data formatting to modern website design while collaborating with other students using Git and GitHub
- Integrated Firebase's Realtime Database and authentication services into 4 different web applications to automatically manage and sync large volumes of user data, through CRUD functions

Programming Instructor

Region of Peel, ON

Peel District School Board of Ontario

June 2021 – Present

- Lead a developmental program for 50 students to excel and advance their knowledge of functional and object-oriented programming
- Designed a curriculum to introduce students to prominent languages like Python and JavaScript, while simultaneously ensuring a strong conceptual understanding of a computer's internal processes
- Utilized popular coding platforms to add an element of interaction to the lessons, such as EarSketch and Replit

Competitive Robotics Team Founder & Mentor

Brampton, ON

Kraftwerx Robotics

July 2017 – May 2021

- Created Kraftwerx Robotics to help students develop an interdisciplinary comprehension of STEM Education through modern languages/software, such as AutoCAD, C++, and Python
- Developed a robotics curriculum from scratch to help students with no prior experience become equipped with both mechanical and software engineering knowledge
- Expanded the organization from 4 students to 15, who have qualified for the World Championships every year

PROJECTS

Art of Motion | [GitHub link](#)

Dec. 2020

- A detailed inquiry into the best mathematical function to move a robot in a straight line, determined with integration and 2D motion profiling
- Used the VEX Robotics platform in combination with C++ and the OkapiLib Odometry API to run test cases

Street Sensor System | [GitHub link](#)

June 2020

- Created a scale model of a traffic intersection powered by Arduino IDE using C++ to automate the traffic lights
- Simulated car sensors using photoresistors, sending a signal to the Arduino to change the lights when a car is detected at the intersection

SKILLS

Software Languages: HTML/CSS, JavaScript, TypeScript, Python, C, C++, SQL, MATLAB

Other Technologies/Frameworks: Firebase, Git, GitHub, Node.js, Bootstrap, Bulma

Spoken Languages: English, French, Punjabi, Hindi, Urdu