

# Tejas Wilkhoo

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## 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
- Explored several different APIs (Giphy, Spotify, Deezer API) while collaborating with other CSSI 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

### 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 languages like Python and JavaScript, while ensuring a strong conceptual understanding of a computer's internal processes through hardware lessons
- Utilized popular coding platforms such as EarSketch and Replit to introduce students to text-based programming

### Competitive Robotics Team Founder & Mentor

Brampton, ON

*Kraftwerx Robotics*

*July 2017 – May 2021*

- Created Kraftwerx Robotics to help students (including myself) experience hands-on STEM Education, using software and languages such as AutoCAD and C++ through lessons and competitions
- 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 (out of ~20,000 teams worldwide)

## PROJECTS

### My Music Mix | [Project Demo](#) | [GitHub Link](#)

*Aug. 2021*

- A web application for users to store their song, album, artist, and genre preferences outside of streaming services
- Integrated item-search functionality using the Deezer API, and automatically synced and stored user selections with a Firebase Realtime Database
- Managed user authentication using Firebase's OAuth 2.0 credentials to associate user preferences to their account

### Street Sensor System | [GitHub link](#)

*Dec. 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

## SKILLS

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

**Other Technologies/Frameworks:** Firebase, Git, GitHub, Sass, jQuery, Bootstrap, Bulma

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