Tejas Wilkhoo

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Education

University of Waterloo — **Waterloo, ON**
Candidate for Bachelor of Computer Science — *July 2021 - Aug. 2021*

Experience

Computer Science Summer Institute (CSSI) Student — **Remote**
Google — *July 2021 - Aug. 2021*

- Participated in a selective computer science program centered around Firebase taught by Google engineers
- Explored several different APIs such as Giphy, Spotify, and Deezer API, while collaborating with two other CSSI students to create a music storage and playback web application (My Music Mix) using Git and GitHub
- Integrated Firebase's Realtime Database and authentication services into 4 different web applications to automatically manage and sync user data

Programming Instructor — **Region of Peel, ON**
Peel District School Board of Ontario — *June 2021 - July 2021*

- Lead a regional developmental program to introduce 50 middle-school students to object-oriented programming and computer architecture
- Designed a curriculum based around Python and JavaScript through interactive coding platforms such as EarSketch and Replit, helping every student create a personal culminating programming project

Competitive Robotics Team Founder & Mentor — **Brampton, ON**
Kraftwerx Robotics — *July 2017 - May 2021*

- Created Kraftwerx Robotics to help students practice robotics programming and mechanical design through weekly meetings and competitions
- Developed a robotics curriculum from scratch to teach new students about control systems and feedback loops, while also integrating them on a real robot in C++
- Expanded the organization from 4 students to 15, who have qualified for the World Championships every year (500 out of 20,000 teams worldwide)

Projects

My Music Mix | ⌘ | ⬡
Firebase, Deezer API, Bulma

- Created a web application for users to store and play their favourite music outside of paid streaming services
- Integrated asynchronous item-search functionality using the Deezer API, and automatically stored user selections in a Firebase Realtime Database
- Managed user authentication using Firebase's OAuth 2.0 credentials to associate user preferences to their account

Art of Motion | ⬡
Vex Robotics Components, OkapiLib Odometry API

- Determined a mathematical movement model which ensures minimal inaccuracy of robotic drivetrain movements
- Used VEX Robotics parts to build a robotic prototype, and the OkapiLib Odometry API to run 30 testcases
- Released all findings publicly, reaching 50+ other competitive VEX teams worldwide

Technical Skills

Languages: JavaScript, TypeScript, Python, C, C++, Java, HTML/CSS, SQL
Libraries/Frameworks: React, Next.js, Material-UI, Chakra-UI, Bootstrap, Bulma, WordPress, jQuery
Other Technologies: Git, GitHub, Firebase, SQLite3, Node.js, Sass