

Neel Bullywon

🏠 Waterloo | 📧 nebu0528 | 🌐 Neel Bullywon | ☎ 416-XXX-XXXX | ✉ n2bullyw@uwaterloo.ca

SKILLS

Languages: C, C++, CSS/HTML, Java, JavaScript

Hardware: PCB Design, Arduino, PTH Soldering, Drill Press, Foot Shear

Tools: Git, Visual Studio, React, Heroku, Node.js

Certifications: Network Security Associate 1, Network Security Associate 2

PROJECTS

🕒 Money Tracker

July 2021

Full-stack web application made to organize income and expenses

Node.js, React, Heroku.

- Created a **Context API** with **Nodejs**, **React**, **React Hooks** to send HTTP requests and manipulate data.
- Constructed **styled components** to create a simplistic and visually appealing UI.
- Added functionality to add or delete tasks by using **React Icons** and **Global State**.

🕒 Task Manager

July 2021

React web application made to organize daily tasks or events

Node.js, React, Heroku.

- Created an application using **Node.js**, **React** and **React hooks** to create an HTTP website.
- Implemented **React Icons** and **styled components** to create a dynamic UI/UX.
- Deployed website using **Git** commands and hosted via **Heroku** which increased responsiveness by **20%**.

🕒 Covid-19 Distance Sensor

May - June 2021

An Arduino made using an LCD and Ultrasonic Sensor to locate a person's distance

C++, Arduino.

- Constructed a distance sensor using an **Arduino**, **LCD**, **Ultrasonic Sensor** and coded using **C++** to make a sensor that can measure a person's distance from the wearer.
- Implemented real-time location tracking with **Ultrasonic Sensor**, accurate to within 3 meters.
- Created a device meant to promote social distancing during this global pandemic and following a safe distance.

🕒 LED Cube

December-January 2020

3x3 LED Cube controlled by PICAXE-20X2 microcontroller

PICAXE, PTH Soldering.

- Built an LED Cube and implemented a **PICAXE-20X2 microcontroller** to hold the LED Pattern code using **PICAXE**.
- Implemented PICAXE-20X2 chip increased the speed of the LED Pattern by **10%** making it run smoothly with no issues.
- Developed skills in **PICAXE**, **soldering PTH components** giving me experience into the electrical and computer engineering field.

🔧 Christmas Tree LED

November-December 2019

A PCB designed by me in the shape of a Christmas Tree

PCB Design, PTH Soldering.

- Designed **PCB** and **etched copper** from scratch.
- Soldered **PTH components** and implemented **IC1-4093 chip** to configure LED sequence.

WORK EXPERIENCE

🧰 Active Green and Ross

Mississauga, ON

Junior Mechanic

January-March 2020

- Worked under immense pressure while providing excellent customer care service I.e. Handled enquirers.
- Developed great communications skills by communicating with co-workers effectively and given many opportunities to embrace leadership I.e., planning out plans for tire and oil changes.
- Processed information from forms given and inputted them into Excel and onto the database.

🧰 FX LAT Club

Mississauga, ON

French Tutor

September-June 2021

- Assisted in developing a French tutoring program to help students struggling with French.
- Collaborated with a dozen students and created this club as a final product.
- Provided tutoring for those in need in school and outside of that for all ages.
- Conducted a survey and all my students increased their average by **10%** under my tutelage.

EDUCATION

University of Waterloo

Bachelor of Applied Sciences Electrical Engineering

Waterloo, ON

Anticipated 2026