

Vraj Bhavsar

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Education

University of Waterloo

B.A.Sc. in Computer Engineering

Relevant Courses: Linear Algebra, Calculus 1, Classical Mechanics, Fundamentals of Programming

Expected: April 2027

Skills

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

Tools & Technologies: Git, Bootstrap, React, React Native, Node.js, Figma, Angular, MongoDB, Django, Microcontrollers (STM32 Nucleo Board), Chakra UI, Next.js, and Rest API

Experience

Health and Rehab Research Inc.

Software Engineer Intern

January 2023 – Present

Mississauga, ON

- > Working on implementing and approving machine learning models for applications, front-end development and integrating signal processing software
- > Developed webpages for suppliers and SME with **React.js**, **Next.js** and **Chakra UI**

Waterloo Formula Electric

Firmware Developer

October 2022 – Present

Waterloo, ON

- > Assisted in the development of vehicle dynamics algorithms with **C** and **Python** as well as the built out infrastructure on Beaglebone

Toronto District School Board

Mathematics Tutor

March 2022 – June 2022

Scarborough, ON

- > Engaged in aiding grade 9's and 10's that have difficulty in understanding the concepts of mathematics related to number sense, algebra, geometry, data, probability, and financial literacy

HeadstartSTEM

Web Developer

January 2021 – June 2022

San Jose, CA

- > Developed a general web page for the organization on a platform with the help of **HTML**, **CSS** and **JavaScript**
- > Debugging technological issues through HTML, CSS, and JavaScript

</> Projects

Moisture Sensor - Nucleo Board

- > Assembled a functional moisture sensor with an **STM32 Nucleo Board** from scratch that alerts users on their agriculture with LED's

Weather Application

- > Built a weather application with **React** that allows users to view weather conditions in a particular location using Open Weather Map API

Movie Review Application

- > Explored OMDb API and developed a movie application with React that allows access to analyze the reviews of the latest and classic movies

Fitness Freak - Hack the North 2021

- > Developed a user-friendly Fitness App with **React Native** and **Django** to help enhance the experience of letting individuals workout stress-free from anywhere with friends and families virtually

Tesla, Inc. Homepage Clone

- > Constructed in the creation of a replica homepage for Tesla, Inc. using two core technologies to create web pages; **HTML/CSS**

Volunteer Experience

YMCA

Aquatics Assistant

July 2018 – March 2020

Scarborough, ON

- > Providing children and youth ages 3 to 15 years registered in the swim program healthy opportunities to learn and improve their swim skills
- > Building a strong relationship with staff members across the facility with an open heart and bright smile