Bikramjit Narwal

Computer Engineering at the University of Toronto



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Qualifications

Languages

oC/C++ oPython

oVerilog

oJavaScript

Front End

oHTML

 \circ CSS

o Bootstrap

o React

Databases

 \circ MySQL

Technology

OMATLAB

Microsoft Licensed

Software

oAutoCAD

oLaTeX

oVisual Studio

Hobbies

oSoccer

Blogging

oVideo Editing

Achievements

Hack the North 2019
 1st Place in
 SurveyMonkey

Developer Challenge

– Won the Hack the

North

SurveyMonkey API challenge for the

best and most creative usage of

○ Sabre Award –

their API

Issued to only 2
Sandalwood Heights
students for
actively being
involved in all 4
years of high school

Experience

Software Associate | *AGI Transportation*

May 2019 – August 2019

o Used **SQL to store data** of trucking equipment & other facility inventory.

- o Assisted in the design of the company website & programmed front-end functions.
- o Utilized Microsoft Word & Excel to create & update records, ensuring accuracy & validity of information.

Design Engineer | ioTSpire

January 2019 – May 2019

- o Worked on a system that organized food delivery orders that were displayed on various tablets from different food delivery applications.
- o **Prototyped a mechanical stand** that organized these different tablets that would originally create disorder on the POS desk.

Product Manager & Designer | *Tanvas*

September 2018 – December 2018

- o **Utilized Tanvas hardware technology** to design 3 effective solutions that assist visually impaired users to track heart rate with a fitness app.
- o Created 3 prototypes using **AutoCAD** to help visually impaired individuals track their heart rate.
- o Demonstrated leadership & organization by scheduling team meetings & highlighting expectations for upcoming weeks.

Projects

Hack the North Dev Challenge | Python, HTML/CSS, JS, Pyramid, ImageAI

September 2019

- o **Created a web application** that accepts an image of the user's hand using the computer webcam and detects whether someone gives a thumbs up or a thumbs down and sends this information to a SurveyMonkey survey through an API call.
- o **Implemented a Machine Learning Model** which can be utilized by end-users to automate the submission of survey responses.
- o Used the SqueezeNet algorithm to generate the **image recognition model** & trained the model using Supervised Learning with 500+ images.

Al Asteroid Space Game | C++

November 2019

- o Wrote a program that **receives sensor data** for incoming asteroids and directs phasor fire to destroy them before they hit the ship
- o **Extended a game server** that simulates the asteroids and the actions of the Starship as it navigates through the belt of asteroids

Personal Music Library | C Programming

April 2019

- o Maintained information about a personal music library by having each node containing three strings: a song's name, its artist, & its genre.
- o The data in the personal music library is stored in memory with the use of a **linked list** with one list node per song.

Tic-Tac-Toe Game | C++

September 2019

- o **Developed a server** that is responsible for detecting mouse clicks and converting the window coordinates at which the mouse is clicked into game board coordinates & is also responsible for graphically displaying the game board in a window.
- o The logic of the game accepts & validates user input and interacts with the server using an object called gameState.

Education

University of Toronto

2018 – 2023

Candidate for Bachelor of Applied Science, Computer Engineering