

Bikramjit Narwal

Computer Engineering at the University of Toronto



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Qualifications

Languages

- C/C++
- Python
- Verilog
- Assembly
- JavaScript
- Java

Front End

- HTML
- CSS
- Bootstrap
- React

Databases

- MySQL

Technology

- MATLAB
- Microsoft Licensed Software
- AutoCAD
- LaTeX
- Visual Studio

Hobbies

- Soccer
- Blogging
- Video 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 their API



Experience

Software Associate | AGI Transportation

May 2019 – August 2019

- Used **SQL to store data** of trucking equipment & other company inventory
- Assisted in the design of the company website & **programmed front-end functions**.
- Utilized Microsoft Word & Excel to create & update records, ensuring accuracy & validity of information.

Design Engineer | ioTSpire

January 2019 – May 2019

- Worked on a system that organized food delivery orders that were displayed on various tablets from different food delivery applications.
- **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

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

Projects (15+ on Github)

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

September 2019

- **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 thumbs down and send this information to a SurveyMonkey survey through an API call
- **Implemented a Machine Learning Model** which can be utilized by end-users to automate the submission of survey responses.
- Used the SqueezeNet algorithm to generate the **image recognition model** & trained the model using Supervised Learning with 500+ images.

Stay in School | Java, Android Development

January 2020

- An **android application** that keeps track of your attendance at school
- Implemented the tracking feature which detects if someone is at their class's location using a **Google Maps API**
- Added a streak feature which builds up as the student attends classes

AI Asteroid Space Game | C++

November 2019

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

Education

University of Toronto

2018 – 2023

Candidate for Bachelor of Applied Science, Computer Engineering