

ANMOL TYAGI

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TECHNICAL SKILLS

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

Frameworks: React.js, Tensorflow.js, Streamlit.py

Developer Tools: Git, Visual Studio Code, PyCharm, Eclipse, Xcode

RELEVANT EXPERIENCE

HackTheNorth — Hackathon

JavaScript - September 2021

- Competed in **Canada's biggest hackathon** against 500 teams to create a product within 48 hours
- Developed a smart productivity app that helps users learn concepts through active recall
- The app periodically quizzes users from a weighted question bank
- Utilized Twilio's **API** to send notifications to user's device

JamHacks 5 — Hackathon

Python - May 2021

- Developed a web application that uses **Machine Learning** to predict the user's probability of getting accepted to uWaterloo programs with an accuracy rate of **92%**
- Predictions were made using a **Linear Regression model** that was first trained with historical data

PROJECTS

Warzone Loadout Application

React.js - JavaScript - HTML - CSS

- Launched a web application that generates Call of Duty loadout combinations which has over **750** users.
- Hosted a database on Google Sheets using its **API** to store and search different loadouts
- Improved loadout searchability and navigation by employing **React Hooks** and **States** to enhance user experience

Face Mask Detection App

JavaScript

- Developed an app that uses **Face-Api.js** (built on **Tensorflow.js**) that detects whether users are wearing a face mask with an accuracy rate of **87%**
- Integrated face detection and employed **Machine Learning** concepts such as **Supervised Learning** and **Neural Networks** for facial classification

A* Path-Finding Visualizer

Python

- Implemented the **A* Pathfinding algorithm** to find the most efficient path between 2 given points on a 2-D matrix
- The application visualizes all potential paths that the algorithm considers before arriving the optimal solution

Phillips Hue Lights Smart Automation

Python

- Utilized the **Philips Hue API** to develop an application which allows users the ability to automate their Philips Hue light configurations

EDUCATION

University of Waterloo

September 2021 - May 2026

B.ASc in Computer Engineering - GPA: 3.6/4

Waterloo, ON