DHRUV PATEL

BASc – COMPUTER ENGINEERING

RESUME

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PROFILE

I'm Dhruv Patel! I am an innovative, inquisitive, energetic, computer engineering undergrad who has passion spanning various areas of technology, with a strong foundation in multiple programming languages and software, preparing for a major in computer software and a minor in Artificial Intelligence.

CONTACT

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PROGRAMMING

C/C++	Python (with TensorFlow)
Java	Arduino
MATLAB	Git/GitHub

SOFTWARE SKILLS

Electron	TensorFlow
GitHub	Tesseract ORC
MATLAB	Firebase
Adobe XD/PS	
AutoCAD	

INTERESTS

Artificial Intelligence
Machine Learning (DNN, RL)
Virtual/Augmented Reality
Quantum Computing
Self Driving Vehicles
Real-Time Data Processing
Blockchains

EDUCATION

Bachelor of Applied Science, Computer Engineering

University of Toronto, GPA: 3.7/4.0 — Year of Study: 2

September 2017 – Present — Expected Graduation Year: 2021

Intended Minor: Artificial Intelligence

EXPERIENCE

Co-Founder & Lead Software Developer — Jan 2018 – Aug 2018

Pulse, Toronto, ON

- Designed a robust event recommendation engine from scratch using machine learning specifically K-nearest neighbour algorithm that recommends events for the user based on the events they attended, past activities, their feedback, friends and various other attributes.
- Collaborated with the designer on the Android team to program the designed concept sketches and wireframes for the initial prototype using Java in Android Studio for the Android development.
- Led and brainstormed with the creative thinking team to create new features/product specifications for all the new upcoming products and application platforms
- Carried out various responsibilities in front-end and the back-end for the web platform

PERSONAL PROJECTS

Text Recognition Engine (In Progress)

Programming Language: Python, Tesseract ORC & TensorFlow

- Using what I learned during my time at Startup, I decided to expand my understanding of ML by embarking on a personal project that uses Tesseract ORC and TensorFlow libraries to create a simple text recognition engine that recognizes handwritten digits and alphabets.

Super Mario Galaxy (Window's version)

Programming Language: Java

- Build a window's version of Super Mario Galaxy with customizable gameplay, powerups and new world using java.

Gesture/Remote Controlled Car

Programming Language: Arduino, Python, Java (Android)

- Assembled a RC car using HC05 a Bluetooth transceiver module and Arduino UNO and enhanced by gesture controlled through android application package, APK.

HACKATHONS

DeltaHacks — January 2019

McMaster University

- Planned to create a software that recommends the user a caption for their image using machine learning to identify objects within the image and a neural network to classify the image based those objects and recommend a caption