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Education

University of Toronto, St. George Campus

Toronto, ON

BASc Computer Engineering – GPA: 3.80/4 – Dean's Honour List

2017 - 2021

Courses: Algorithms and Data Structures (A-), Machine Learning (A+), Operating Systems (B), Databases (A)

Experience

Amazon Web Services

Vancouver, BC

Software Development Engineer Intern

May 2020 - Aug 2020

> Amazon MQ Team: building a service using AWS Lambda, DynamoDB, React, NodeJS

National University of Singapore

Singapore

Machine Learning Research Intern

May 2019 - July 2019

- > Developed an application with a **PyQt GUI** to classify medication from live webcam video
- > Used **OpenCV** to identify pills from a screen and **K-Means** clustering with **Scikit-Learn** to extract HSV value
- > Queried a MySQL database to insert, classify and remove pills and their corresponding information
- > Additionally trained a CNN built with **TensorFlow** to recognize 6 pills, achieving **97% accuracy** on test set
- > App recognized 6 stored pills with a 93% accuracy under good lighting, and 68% under poor lighting

△ Projects

CineYet - Android App

Java, Firebase, Android Studio

- > Built a social media app for cinephiles, allowing users to review movies and recommend them to friends
- > **NoSQL** database and authentication hosted on **Firebase**, movie data retrieved from IMDB API, user interface built with **Android Studio**

Onion GIS Map Application

C++, GTK, Libcurl, Git

- > Implemented **Dijkstra's** algorithm to find path between intersections, optimized run time by 50%
- > Displayed live weather data using Dark Sky API, retrieving information with Libcurl web scraper

T Hackathons

Finalist and Best Fashion Hack - UofTHacks 2020

Python, AWS, Heroku, MySQL

- > Created a website customizing environmentally friendly outfits for a user based on photos of their clothing
- > Deployed a Flask server on **Heroku** to receive user input, applied Google's **Cloud Vision API** to analyze the data, retrieved outfit combinations from a **MySQL** database hosted on **AWS**

2nd Place - RBC AmpHacks 2019

Python, jQuery, Flask, AJAX, Bootstrap

- > Built a platform to plan Income Share Agreements a theoretical alternative to student loans offered by RBC
- > Used **jQuery** and **AJAX** to send user profile information to the Flask server, analyzing student data with a KNN

Winner - Hack The North 2019 - TD API Challenge

Python, Flask, Azure OCR, MySQL

- > Built an app providing students with financial and environmental advice about their shopping decisions
- > Used Azure OCR to analyze receipt data, Flask build the REST API, MySQL to store user data

♥\$ Skills

Languages: C, C++, Python, Java, SQL, HTML, CSS, JavaScript, MATLAB

Technologies: AWS, Qt, GTK, TensorFlow, Scikit-Learn, OpenCV, Numpy, Matplotlib, Flask, Firebase, Android SDK