JEFFREY NG

(647) 771-8718
jc4ng@uwaterloo.ca
jeffrey-ng.me
Jeffrey-ch-Ng
www.linkedin.com/in/jeffrey-ng-022

Candidate for B.ASc in Systems Design Engineering 2023 | GPA 3.9
University of Waterloo

Skills

Languages:

Python
JavaScript
Java
C++
HTML/CSS
Liquid

Frameworks & Tools:

Git
React/Redux
Flask
AWS/Google Cloud
Docker
Bootstrap

Achievements

International First Place

DECA Buying and Merchandising Operations Research Event

First Place

InspireHacks2017 MLH Localhost Hackday

Best Overall Solution

University of Toronto Design Competition

Interests

Competitive Swimming
Badminton

Work Experience

Software Developer | Deloitte | Sept-Present

- Created a document search engine utilizing **NLP data pre-processing** concepts in **Python** to allow Deloitte tax practitioners to easily find and access required files
- Led internal hackathon to develop a **Python/Flask** app which obtains **Pandas** dataframe from Google Trends API and renders data dynamically using **React**
- Implemented an **AWS** pipeline using an **S3 Bucket, Lambda function,** and **ElasticSearch** with **Kibana** to parse and index documents quickly and efficiently
- Researched **Snorkel** and **Snuba** Python libraries to assist in the generation of training data and labelling functions for weak supervised machine learning models

Web Developer | Ontario Institute for Cancer Research | Jan-Apr 2019

- Implemented **React** components for OICR LABS websites using **JavaScript ES6** and **JSX** syntax to access data from the **Redux** store and render dynamically
- Created responsive **Bootstrap, Sass/CSS** static templates with **HTML** and **Liquid** syntax on the **Jekyll** static site generator to create quick, secure static websites
- Utilized **Docker** to create local environments and **Git** for version control

Projects

Eye of Minerva

- Designed an Android app using **Java/Android Studio** hosted by a server on the **Google Cloud Platform** using **Python/Flask** for **Hack the North 2019**
- Captures images of American Sign Language and uses a machine learning model to translate images into text and is spoken through a Speech-to-Text API

Digimunne

- Created a user-centric web application allowing users to store patient data utilizing the **Django** framework with a **Python** backend and a frontend built with **HTML**, **CSS**, and **JavaScript**.
- Allowed users to store patient data on an SQL database to allow medical professionals to digitally access medical records, reducing needless paperwork

Physics Simulator Learner

- Developed a modular **Java** GUI application using **Object Oriented Programming**, Inheritance, and Polymorphic Principles
- Utilized user-friendly simulations explaining difficult fundamental physics principles