JEFFREY NG

Candidate for B.ASc in Systems Design Engineering | GPA 3.9

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Jeffrey-ch-Ng

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University of Waterloo

Skills Languages:

Python

JavaScript

Java

C++

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HTML

CSS/Sass

SQL

Jinja/Liquid

Frameworks & Tools:

Git

React

Flask

AWS/GCP/Azure

Docker

GraphQL

SQL Databases

Neo4i

Achievements

First Place

InspireHacks2017 MLH Localhost Hackday

Best Overall Solution

University of Toronto **Design Competition**

International First Place

DECA Buying and Merchandising Operations Research Event

Work Experience

Software Developer | Deloitte | Sept-Present

- Architected a search engine backend with Flask, GraphQL, and Azure Cloud services including Search and Cognitive Services to parse documents using NLP concepts
- Implemented an AWS pipeline using an S3 Bucket, Lambda functions, and ElasticSearch with Kibana to index and return text documents quickly and efficiently
- Migrated SQL database to Graph database and experimented with different graph database frameworks including Neo4j and CosmosDB with GremlinAPI on Azure
- Created an inverted-index using Python to index and rank documents using TF-IDF
- Led internal hackathon to develop a Flask app which obtains Pandas dataframe from Google Trends API and renders data dynamically to a user-friendly UI with React

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

- Developed React components for the OICR LABS websites using JavaScript ES6 and JSX syntax to access data from the Redux store to render dynamically
- Designed responsive Bootstrap, Sass/CSS templates with HTML and Liquid syntax on the Jekyll static site generator to create quick, secure web pages
- Utilized **Docker** to setup local web environments to develop and test functionality

Projects

Eye of Minerva

- Designed an Android app using Java Android Studio with the backend hosted on Google Cloud Platform using Python-Flask self trained ML model
- Captures images of American Sign Language and uses the ML model to translate images into text and speech

Digimunne

- Constructed a user-centric web application allowing users to store patient data utilizing the Django framework with a Python backend HTML, CSS, and JavaScript frontend
- 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

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