

# Aman Singh

☎ (289) 489-6863 | ✉ amanpal\_singh@outlook.com | 🏠 www.amansingh.co | 🌐 AmanPal-Singh | 🌐 in Aman-Pal-Singh

## Skills

### Languages

Python, Javascript, Java, C++, C, HTML, CSS

### Frameworks and Tools

Django, Flask, React, NodeJS, AWS, Azure, Firebase, SQL, Docker, Git, Bash, Linux

## Experience

### Software Engineering Intern

Waterloo, ON

DELOITTE

Jan 2020 - Apr 2019

- Developed analytics dashboard using **React** front-end to visualize insights and **Flask RESTful APIs** to analyze Yammer posts
- Developing natural language processing pipeline for preprocessing client feedback with HuggingFace Transformers & Tokenizers
- Building multi-label classification model to identify themes within client feedback surveys using **active learning** and **entity resolution** to increase volume of and reduce tasks tagging

### Processing Software Developer

Waterloo, ON

WATONOMOUS STUDENT DESIGN TEAM

Jan 2020 - Present

- Improved data transformation time by building parser to convert OSM map data into internal class representation with Python

### Software Developer Intern

Mississauga, ON

MAPLE LEAF FOODS

May 2019 - Aug 2019

- Enhanced customer satisfaction by implementing a product locator web application using **Flask, Pandas**, and SAP databases
- Rapidly developed and deployed web applications for internal initiatives using **React, GatsbyJS** and Azure
- Increased mobile application adoption **by 20%** at production facilities by developing and executing adoption plan

### Connected and Automated Vehicle Software Team Member

Waterloo, ON

UNIVERSITY OF WATERLOO ALTERNATIVE FUELS TEAM (ECO-CAR)

Sep 2019

- Researched sensor configurations on a vehicle by using MATLAB and Simulink to simulate a driving scenario
- Designed a Jetson Shield for the NVIDIA Jetson TX2 using Eagle to create the PCB for the controller

## Projects

### GrowCeries — Hack The North 2019

REACT, NODEJS, EXPRESS, FIREBASE

September 2019

- Designed and built a system to track shopping patterns within a store to provide insights as to where to maximize product visibility
- Integrated Firebase's **realtime database** and **NodeJS** to analyze sensor data and produce visualizations in a **React** front-end

### Deep Finalyst — PennApps 2019

PYTHON, JAVASCRIPT, FLASK, TENSORFLOW, KERAS

September 2019

- Built a full-stack application with a Flask back-end to predict future performance with JavaScript data visualizations
- Utilised **Tensorflow** and **Keras** to develop a machine learning model that **predicted stock performance with 85% accuracy**

### Glasswing Insurance — Hack The 6ix 2019

PYTHON, DJANGO, SQL

August 2019

- Built a web application with **Django** to calculate environmental risk of a property and to show crowd-sourced insurance data
- Aggregated data with various APIs to calculate risk using historical data of air quality, water quality, and other environmental factors

### NBA Finals 2018 Twitter Analysis

PYTHON, JAVASCRIPT, PANDAS, SELENIUM

April 2018 - July 2018

- Collected and analyzed over 100,000 tweets using Pandas and Python to provide insight into fan reactions throughout the finals
- Used NumPy, Pandas, and Vincent Python modules to provide an **sentimental analysis** of tweets

## Education

### University of Waterloo

Waterloo, ON

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, **GPA: 89%** (CUMULATIVE)

Sept 2018 - Present

- Dean's List | Nortel Institute Scholarship | Taylor Steel Mathematics Award

## Awards

2019 **ProdCon 2019 1st Place**, Placed first in a product pitch competition hosted by Microsoft

Waterloo, ON

2018 **DECA Independent Business Plan Provincials Award**, Awarded for placing in the top 7 of all teams

Toronto, ON

## Interests

Photography • Rock Climbing • Robotics • Cycling • Design