

Aman Singh

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Skills

Languages

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

Frameworks and Tools

Django, Flask, React, NodeJS, Express, Nginx, MongoDB SQL, Azure, AWS, Docker

Experience

Software Engineering Intern

Waterloo, ON

DELOITTE

Jan 2020 - Apr 2020

- Reduced manual efforts to tag themes within customer feedback by engineering **multi-label classification model** with pyTorch
- Engineered **named entity recognition** pipeline to identify and analyze competitors using spaCy and Python with **90% accuracy**
- Developed full-stack application for automated tagging tool using **Flask APIs, React, MongoDB** and Nginx
- Developed analytics dashboard using **React** front-end to visualize insights and **Flask RESTful APIs** to analyze Yammer posts

Software Developer, Data Processing

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
- **Increased lane path querying by 20%** building API endpoint in Python and ROS that computes possible routes for vehicle

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

- Tested various sensor configurations on a model vehicle using MATLAB and Simulink for object detection
- Designed a Jetson Shield for the NVIDIA Jetson TX2 using Eagle to create the PCB for car automation controller

Projects

GrowSeries — 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 NLTK, 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

Interests

Photography • Rock Climbing • Robotics • Cycling • Design