

Aman Singh

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Skills

Languages

Python, C, Javascript, C++, Scheme, MATLAB

Frameworks and Tools

Django, Flask, React, AWS, Docker, Bootstrap, Azure, Firebase, NodeJS, Git

Experience

Maple Leaf Foods

Mississauga, ON

SOFTWARE DEVELOPER

May 2019 - Aug 2019

- Improved customer satisfaction by implementing a Product Locator web application using Flask, Pandas, and SAP databases
- Rapidly developed websites for initiatives within the Digital Team by using React and GatsbyJS
- Improved test case speeds by 6 times by automating testing for web applications using Python and Selenium
- Improved mobile application usage by 20% at production facilities by researching, developing and executing adoption plan

University of Waterloo Alternative Fuels Team (EcoCar)

Waterloo, ON

CONNECTED AUTOMATED VEHICLE SOFTWARE DEVELOPER

Sep 2019 - Present

- Tested 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 design mockup
- Developing an interface in C++ to interact with the car's camera and to validate information passing through the system

Maple Leaf Foods

Hamilton, ON

AUTOMATION AND CONTROLS SYSTEM INTERN

May, 2018 - Aug, 2018

- Troubleshoot PLCs, HMIs and network issues with machinery and equipment in the facility such as FANUC Robots, boilers, and conveyor systems
- Monitored packing robotic arms and troubleshoot pattern and visual recognition issues by using RS Logix 5000 software and HMI interfaces

Projects

GrowSeries — Hack The North 2019

REACT, NODEJS, EXPRESS, FIREBASE

September 2019 - Present

- 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 with NodeJS to store and analyze sensor data that is visualized to users in a React front-end

Deep Finalyst — PennApps 2019

PYTHON, JAVASCRIPT, FLASK, TENSORFLOW, KERAS

September 2019

- Built a web application with a Flask backend 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 to calculate environmental risk of a property and to show crowdsourced insurance data using Django and SQLLite
- Aggregated data using various APIs to calculate risk using history of earthquakes, air quality, and map data of a geocoded address

InstaTutor Mobile App

REACT NATIVE, FLASK, MYSQL

April 2019 - Present

- Developed a mobile application to find tutoring services in a user's location with a React-Native frontend
- Developed back-end using Flask and MySQL to create and store user profiles in addition to posts

NBA Finals 2018 Twitter Analysis

PYTHON, JAVASCRIPT, PANDAS, SELENIUM,

April 2018 - July 2018

- Collected and analyzed over 100,000 tweets using Pandas and Python
- Used NumPy, Pandas, and Vincent Python modules to analyze data and then produce data visualizations showcasing trends in tweets

Education

University of Waterloo

Waterloo, ON

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, GPA: 3.9/4.0

Sept 2018 - Present

- Nortel Institute Scholarship | Faculty of Math Entrance Scholarship | Taylor Steel Mathematics Award

Awards

2018 **DECA EIB Provincals Award**, Awarded for the Independent Business Plan event at DECA Ontario

Toronto, ON

2018 **Govenor General Academic Medal**, Awarded to the top scoring student at a Canadian highschool

Hamilton, ON