

# Aman Singh

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## EXPERIENCE

### CONNECTED AUTOMATED VEHICLE TEAM MEMBER | UWAFI

October 2018 - Present | Waterloo, ON

- Part of a student team that competes in a four year challenge to convert a Chevrolet Blazer into a level-4 autonomous hybrid vehicle
- Created a driving scenario using MATLAB to test sensor configurations
- Currently designing a Jetson Shield for the NVIDIA Jetson TX2

### AUTOMATION AND CONTROLS INTERN | MAPLE LEAF FOODS

June 2018 - August 2018 | Hamilton, ON

- 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
- Assisted automation project to educate electricians on how to troubleshoot PLC's and drivers using the RS Logix 5000 software by leading seminars

### STRATEGY AND SCOUTING MEMBER | TEAM 2056 ROBOTICS

October 2016 - June 2018 | Hamilton, ON

- Gained experience with the process of designing of a robot and using various equipment during the build season
- Played key role as a member of the strategy and scouting team, collecting both quantitative and qualitative data on robots
- Assisted with outreach programs, with a focus on youth in the community, such as running VEX IQ workshops at elementary schools and libraries

### STORE STANDARDS ASSOCIATE | WALMART

June 2017 - September 2017 | Hamilton, ON

- Collected and returned shopping carts to storage location while following safety procedures
- Provided customer assistance by helping customers locate items and move items to and from their vehicles

## PROJECTS

### SPOTIFY REACT APP

January 2019 - Present | React, CSS, JavaScript

- Created a web app that displays a user's most played tracks, albums, and artists using the Spotify API and React

### NBA FINALS 2018 TWITTER ANALYSIS

April 2018 - June 2018 | Python, Javascript

- Collected over 100 000 tweets and analyzed tweets using Python using the created JSON file
- Utilized RegEx to tokenize tweets and collect frequent terms
- Used NumPy, Panda, and Vincent libraries to analyze terms and then produce visualizations of the data

### SPORTS SCOREBOARD WEBSCRAPER

December 2018 - January 2019 | Python

- Developed a script using Selenium library to web scrape scoreboards for scores, match-up predictors, injury reports, and box scores
- Parsed source code and retrieved information using BeautifulSoup library

## SKILLS

Programming Languages

Python • C • C++ • CSS • HTML

• JavaScript

Technologies and Frameworks

Git • Bash • Linux • RSLogix 5000 •

Bootstrap • Pandas • Selenium • NumPy

## EXTRA-CURRICULARS

### DECA

2015-2018

- Won 2018 Provincials Independent Business Plan Event by writing a 30 page business plan and presenting to industry judges
- Won 2016 Hamilton Regionals Principles of Hospitality and Tourism Event
- Recruited members and represented DECA chapter at club fairs

### REACH FOR THE TOP

2015-2018

- Served as co-captain of a trivia team
- Organized and oversaw practice sessions
- Placed 3rd in Hamilton Regionals and made it to Ontario Provincials

### HAMILTON PUBLIC LIBRARY

2014-2017

- Read with groups of young children to instill confidence in their literacy skills
- Organized activities and crafts for groups of 15-25 children

## AWARDS

- Governor General Academic Medal
- DECA Provincials Independent Business Plan (EIB) Winner
- Taylor Steel Award for Proficiency in Mathematics

## EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF

COMPUTER SCIENCE (BCS)

Expected 2023 | Cumulative GPA: 3.9

- Faculty of Math Entrance Scholarship
- Nortel Institute Scholarship
- Herbert J Schneider Scholarship

## INTERESTS

- Basketball, Soccer, Cars, Music, Hiking