

Aman Singh

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EXPERIENCE

CONNECTED AUTOMATED VEHICLE TEAM MEMBER | UWAFI

October 2018 - Present | Waterloo, ON

- Participated in the ongoing research and design process for the software architecture required to convert a Chevrolet Blazer into a semi-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 shopping carts 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

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

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

SKILLS

Programming Languages

Python • C • C++ • CSS • HTML

• JavaScript • Scheme/Racket

Technologies and Frameworks

Git • Bash • Linux • React • Bootstrap

• RSLogix 5000 • Pandas • Selenium

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 competed in the Ontario Provincials

HAMILTON PUBLIC LIBRARY

2014-2017

• Read with small groups of young children aged 5-10 to instill confidence in their literacy skills and abilities

• Organized activities and crafts for groups of 15-25 children

AWARDS

• Governor General Academic Medal

• 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