

Aman Singh

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EXPERIENCE

MAPLE LEAF FOODS | AUTOMATION AND CONTROL SYSTEMS INTERN

June 2018 - August 2018 | Hamilton, ON

- Troubleshoot PLCs, HMIs, VFDs, and network issues with machinery and equipment in the facility such as FANUC Robots, boilers, VAT washers, and conveyor systems
- Troubleshoot pattern and visual recognition issues with packaging and pick up robotic arms using RS Logix 5000 and HMI interfaces
- Assisted automation project to educate electricians on how to troubleshoot PLC's and drivers using the RS Logix 5000 software

TEAM 2056 FIRST ROBOTICS TEAM | TEAM MEMBER

October 2016 - June 2018 | Hamilton, ON

- Participated on a FIRST FRC Robotics Team, which participates in sport-based game competition
- 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

WALMART CANADA | STORE STANDARDS ASSOCIATE

June 2017 - September 2017 | Hamilton, ON

- Collected and returned shopping carts to storage location while following safety procedures
- Ensure store presentation is at a high standard by maintaining cleanliness
- Provided customer assistance by helping customers locate items and move items to and from their vehicles

HAMILTON PUBLIC LIBRARY | VOLUNTEER

June 2014 - August 2017 | Hamilton, ON

- Read books with youth in order to help them gain confidence in their reading abilities
- Helped organize activities for youth such as arts and crafts activities
- Read with non-native English speaking youth to improve their English

PROJECTS

NBA FINALS 2018 TWITTER ANALYSIS

| Python, Javascript

- Collected over 100 000 live tweets and analyzed tweets using Python using the created JSON file
- Used RegEx to tokenize tweets and collect frequent terms
- Used NumPy, Panda, and Vincent to visualize data
- Performed sentimental analysis by creating collections of positive and negative terms

AEONS OF IMLAS

| Python

- Text-based RPG game with turn-based combat mechanics
- Created interface for player to view map and select actions in the game

SKILLS

PROGRAMMING

Languages

Python • C • C++ • CSS • HTML

• JavaScript

Technologies and Frameworks

Git • Bash • RSLogix 5000 • Bootstrap •

Pandas • Selenium • matplotlib

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF

COMPUTER SCIENCE (BCS)

Expected June 2023

• Cumulative GPA: 3.9

• Faculty of Math Entrance Scholarship

• Nortel Institute Scholarship

AWARDS

• Governor General Academic Medal (Bronze)

• DECA Provincials Independent Business Plan (EIB) Winner

• Taylor Steel Award for Proficiency in Mathematics

ACTIVITIES

UWAFI DESIGN TEAM

2018-Present

• Member of the CAV subteam whose purpose is to deal with the software aspect of the car

• Created a driving scenario using MATLAB

DECA

2015-2018

• Won 2018 Provincials Independent Business Plan Event

• Won 2016 Hamilton Regionals Principles of Hospitality and Tourism Event

• Recruited members and represented DECA chapter at school club fair

REACH FOR THE TOP

2015-2018

• Organized and oversaw practice sessions

• Placed 3rd in Hamilton Regionals and made it to Ontario Provincials

INTERESTS

• Basketball, Soccer, Cycling, Cars