

# MANVIR SINGH SAHI

3A Computer Science UW / Business WLU

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## EXPERIENCE

### Software Developer - Poize Wealthtech (Cognizantly Inc.)

Jan 2022 - Apr 2022

- Developed API endpoints using **Flask**
- Developed partial templates with **ReactJS** and **Plotly** populated with data from **QuantStats** Module
- Assisted with creation of **Docker** image to maintain dependencies when website is deployed
- Completed **Black Box Testing** for new backend features
- Integrated **Stripe** payment system with **Firestore Database**

### Data Automation Analyst - Motoinsight, Division of Trader Corp

Jan 2022 - Apr 2022

- Improved **Python** scripts using **Pandas** and **Selenium** that identifies 95% of data inconsistency
- Developed script to report 99% of missing images from websites managed by Motoinsight
- Utilized **Postman** to ensure API requests returned the desired data
- Created documentation on **Confluence** so future co-ops and employees can run scripts with no prior experience

### Backend Developer - Winterview

Jul 2020 - Sept 2020

- Refined error reports to be stored in a local **JSON** file using **Java** to reduce expenses of online database
- Improved application efficiency by restructuring backend from **Realtime Database** to **Firestore**
- Documented changes committed on **GitHub** and worked on multiple different branches

### Summer Intern - M&M Carriers

Jun 2020 - Aug 2020

- Accurately prepared **data entries** with TransPlus
- Professionally **communicated** with customers such as GM, Ford, and FCA on trip status
- Audited driver trip reports to ensure **accuracy** between TransPlus and QuickBooks

## PROJECTS

- **Bus Routes** : Found two bus routes with shortest waiting time using **Google Directions API**. Connect with **Flask** backend and **ReactJS** frontend
- **Vehicle Price Prediction** : Multi-Variable model to determine car price that required dataset to be cleaned using **Python Dataframes**
- **Iris Classifier** : **Logistic Regression Model** with front-end developed using **Flask** to allow user to input variables on trained model
- **Stock Price Prediction using Technical Analysis**: Using **Matplotlib** and **ynfinance** to indicate buy or sell based on DMA, MACD, RSI, and 3MA

## PROFESSIONAL SKILLS

- **Languages**: Python, JavaScript, C++, C, Kotlin, R, SQL, Flutter
- **Technologies**: Flask, React, Pandas, Sci-kit Learn, Android Studio, Selenium, NumPy, Linux, Git, Docker, NodeJS, OpenCV, MongoDB, FireBase, FireStore

## PROJECTS

### University of Waterloo - Computer Science

2020 - 2025

- **Relevant Courses**: Designing Functional Programs, Algorithm Design/Data Abstract, Object-Oriented Programming, Logic and Computation, Intro to Optimization, Statistics

### Wilfrid Laurier University - Business Administration

2020 - 2025

- **Relevant Courses**: Intro to Financial Accounting, Financial Management, Organizational Behaviour, Managerial Accounting, Business Law

### Stanford University - Machine Learning Certificate

2021

### Hong Kong University - Full Stack Development Certificate

2021

## AWARDS

- **Ernst and Young Entrance Scholarship**  
Granted for entering Lazaridis School of Business and Economics with one of highest averages of the top six 4U/M courses.
- **President's Gold Scholarship**  
Received for maintaining a 99.5% average or higher in your best six 4U/M courses

## HOBBIES/INTERESTS

- Playing volleyball or basketball
- Reading autobiographies and non-fictional books
- Staying up to date on automotive news and reviews