

# Manvir Singh Cheema

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## SUMMARY

- 5 years of programming experience in Java OOP paradigm
- Competent with Windows, Linux and MacOS
- 4 years of experience with shell scripting in bash, and python
- Knowledgeable of Software Development Life Cycles, CI/CD (Gitlab, and Github), Agile Methodologies

## EDUCATION

### B.Sc., Hons. Computer Science | 2020-2025 | York University Lassonde School of Engineering

**Relatable courses:** Programming for Mobile Computing, Advanced Object Oriented Programming, Operating System Fundamentals, Introduction to Database Systems, Advanced Data Structures, Introduction to Robotics

## EXPERIENCE

### Ontario Ministry of Education | Application Programmer Analyst (CO-OP) | May 2023 – December 2023

Oversaw quality assurance for applications with 441,000 yearly users, executing tests, identifying defects, and improving products in collaboration with teams. Used various testing methods and proficient in Selenium. Expert in requirement analysis and test scenario creation, with strong problem-solving and communication skills.

### York University – Cubesat Team (Essence) | Software Team | SEPT 2021 – FEB 2022

Independently worked on implementing software for the CD74HC4067M (analog multiplier), in conjunction with Arduino Uno to retrieve independent solar cell readings registered on satellite.

### York University – Lassonde Motorsports Team | Electrical Team | JAN 2022 – APR 2022

Lead the research on integrating active aero to the vehicle for better handling, braking, and improving fuel efficiency.

## SKILLS & ABILITIES

### Technical Skills (Underlined skills with high degree of knowledge)

**Programming Languages:** Python, Java, C, C++

**Web Development:** HTML, CSS, JavaScript (NodeJS, ReactJS), Java, XML, Flask, Apache, Spring Boot

**Database:** Postgres, MySQL, SQLite, MongoDB/NoSQL

**Cloud/Hosting:** AWS (S3, RDS, Lambda, EC2), Azure

**Hardware:** ROS2 (in Python, C++ and C), RISC-V, Arduino

## Projects

### [Earning Reports Scrapper](#)

**Programming Language:** Python (Anaconda Distribution)

**Packages:** selenium, pandas, chrome driver, PyPDF2, re, xdrlib

**Description:** Developed a Python application which download's the earning report pdf of Alphabet from a chrome browser. Then, within mainScrape.py the downloaded pdf is parsed of its values via regular expression in order to extract resourceful information.