# JOCELYN LIM

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## SKILLS

- **Tools:** SOLIDWORKS, AutoCAD, GD&T, Git, Microsoft Office, Adobe Creative Cloud, LaTeX, Vim
- **Programming**: Java, Python, C++, JavaScript, HTML5/CSS, Microsoft Visual Basic
- **Languages:** English (Native), French (B2)

## EDUCATION

University of Waterloo - 2020-2025

**Candidate for Bachelor of Applied Science Mechatronics Engineering, Honours - 3.9 GPA**

## EXPERIENCE

### **Royal Bank of Canada** – Innovation Developer

July 2019 – August 2019 Toronto, Ontario

- Continuously improved the user interface and experience of a performance tracking web app using **HTML** and **CSS**
- Integrated backend servers using **Java Spring Boot** to easily extract student data from databases
- Brought a web application with **1.8k daily users** from development to widespread production

### **WATonomous Mechanical Division** – Core Member

January 2021 - Present University of Waterloo

- Work on a design team to create a **level four fully autonomous vehicle** to compete in a four year SAE competition with universities around the world
- Use **SOLIDWORKS** to design a waterproof and vibration proof PCB enclosure connecting a network of radars placed around the car to be **3D printed**

### **Jojo's Factory** – Founder and Creator

May 2020 – Present Markham, Ontario

- **Launched** and **produced** customized face coverings and mousepads
- Publicized products through **Instagram** and **Facebook** to drive new sales
- Created and produced an online **Shopify shop** to easily interact with customers

## PROJECTS

### Friendship Lamp

November 2020 Waterloo, Ontario

- Programmed and built colour co-ordinated lamps to change colours depending on user input and the colour of a sister lamp
- Leveraged **Firebase, Google Sheets API** to synchronize the change in color between both lamps using Python
- Designed and 3D printed a lamp shell using **SOLIDWORKS** to hold a Raspberry Pi and diffuse LED strip lights
- Soldered LEDs, power cords, resistors, and buttons to connect to each other and a Raspberry Pi

### Actor Tracker

May 2020 Toronto, Ontario

- Created a **Chrome extension** using **HTML, CSS and JavaScript, and Python** to identify celebrities in Netflix shows using facial recognition in 48 hours
- Used **Chrome APIs** to take screenshots of a scene triggered by a keypress or a button to send to the backend, and to locally save recently watched shows
- Created and designed the UI and logo for the extension using **HTML and CSS**

### Jojo's Garage

May 2020 Toronto, Ontario

- Replaced radio controlled car technology with new servos, to improve steering accuracy of remote controlled cars by **200%**
- Installed transmitters and receivers into the cars to improve controller range and accuracy by **50%**
- Soldered motor wires to speed controllers and power supplies