



# Ishan Sandhu

ishan.sandhu3121@gmail.com || <https://github.com/xIshanSandhux>

Victoria, BC   
778-679-7726 

## Education

University of Victoria

Victoria, BC

Bachelor of Software Engineering (4<sup>th</sup> Year)

## Skills

- **Programming languages:** R, Java, Python, C, Solidity, Kotlin, XML, MySQL, VBA
- **Tools:** Git, Figma, Balsamiq, JIRA, AutoCAD
- **Testing Frameworks:** Junit, Mockito, Selenium
- **Operating Systems:** Windows, Linux/Unix

## Professional Experience

Junior Project Manager (Co-op)

September 2023 – March 2024

Patriot Electric Ltd.

Victoria, BC

- Developed cost-efficient EV charger infrastructure designs for Multi-Unit Residential and Commercial buildings and Solar Panel electrical infrastructure designs for residential homes, using AutoCAD after careful analysis of the client's requirements and with the Electrical and Building Regulatory Code.
- Effectively oversaw a diverse portfolio of projects, spanning from small-scale residential initiatives to large-scale commercial endeavors. Facilitated seamless communication between general contractors, clients, and suppliers to ensure project requirements were met. Negotiated with multiple suppliers to secure optimal pricing for project materials. Liaised with Electrical Regulatory bodies to ensure compliance with electrical codes, proactively adjusting designs to align with client needs while maintaining code adherence.

## Projects

- **Carrier Pigeon:**
  - Developed an Android Application in Android Studio using Java and XML that can be used to read the latest news of different genres.
- **Working Robot:**
  - Designed and developed a pattern recognizing robotic arm to scan and tabulate the black squares in a multicolor grid.
  - Sculpted the robot structures using AutoCAD.
  - Developed and fostered the functionality using C and manual testing techniques.
- **Event Manager:**
  - Developed a program to transform raw data into human readable output and display the events during a specific time frame using C.
  - Designed and developed algorithms to parse the .ics file, utilized Ubuntu environment to develop the code, and used Git as a version control system for code synchronization.
- **Operation F1:**
  - Developed a data analysis program in python to process the historical Formula One (F1) data in .csv files and present the output graphically.

## Certifications & Achievements

- Course Certificate (Udemy) - MySQL Bootcamp.
- Achieved Award of Distinction in the National Chemistry Quiz hosted by ANCO.
- Won gold medal in 200 m Freestyle Swimming (under 19) - Oman National Interschool Competition.

## Volunteer Experience

- Taught mathematics to the underprivileged students in India.
- Planted over 300 trees in Chandigarh, India as a participant in the tree plantation drive of Baharat Vikas Parishad (NGO).