



# CHRIS SIMMS

Year 2, Computer Science and Mathematics

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## TECHNICAL PROJECTS

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**Product Management System** | *Java, Swing, JUnit, JSON, Git*

Jan. 2023 – May 2023

- Developed system and interface using Java Swing GUI, allowing users to add and edit products.
- Implemented data serialization with JSON for efficient data management and retrieval.
- Employed OOP principles to ensure scalability and ease of codebase maintenance.

**Sorting Algorithm Analysis/Visualization** | *Python, PyGame, Git*

Feb. 2022 – May 2022

- Implemented, optimized and performed runtime analysis on 8 sorting algorithms in Python.
- Analyzed results of over 120 CPU sorting hours as part of Capstone graduation project.
- Developed animation software using PyGame to visualize different methods of sorting.

**Robot Control Systems** | *Java, Git*

Sep. 2021 – Jun. 2022

- Developed control systems in Java to allow a robot to be remotely operated.
- Collaborated with a design team to facilitate testing and implementation of various systems.
- Placed 2<sup>nd</sup> in 2021/22 FIRST Tech Challenge provincial tournament.
- Developed time management and prioritization skills as sole programmer over 9 months.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, HTML/CSS, JavaScript, Bash, Racket, R**Technologies:** Git, PyCharm, IntelliJ, Visual Studio Code, JUnit, GDB

## WORK EXPERIENCE

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**Automotive Parts Sales Representative**

June 2020 – June 2022

*Canadian Tire**Terrace, BC*

- Efficiently managed several complex virtual & physical inventory systems.
- Developed strong conflict resolution skills while building strong customer relations.

**Patient Registration, Visitor Check-In**

June 2022 – Aug. 2022

*Northern Health**Terrace, BC*

- Handled hospital visitor check-in and COVID vaccine verification for entrants.
- Facilitated the integration of a virtual check-in system for lab outpatients.

## EDUCATION

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**The University of British Columbia**

Vancouver, BC

*Bachelor of Science, Computer Science and Mathematics**Expected Graduation: May 2026*