CHRISTOPHER SIMMS

Year 2, Computer Science and Mathematics

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TECHNICAL SKILLS

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

TECHNICAL PROJECTS

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 runtime hours to compare performance of different algorithms
- 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 2nd in 2022 FIRST Tech Challenge provincial tournament.
- Developed time management and prioritization skills as sole programmer over 9 months.

WORK EXPERIENCE

Computer Science Teaching Assistant   Aug. 2023 – Present
The University of British Columbia   *Vancouver, BC*

- Worked as an undergraduate teaching assistant at UBC.
- Mentored students in lecture, lab and online settings, facilitating comprehension of course materials.

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.

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.
- Worked closely with a team, delivering effective customer service in a fast-paced environment.

EDUCATION

The University of British Columbia   Vancouver, BC
Bachelor of Science, Computer Science and Mathematics   *Expected Graduation: May 2027*