

Simon Chase

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SKILLS

Languages: Java, C, C++, JavaScript (p5.js), Racket

Tools: Git, GitHub, Bash, Visual Studio Code, IntelliJ, L^AT_EX

EXPERIENCE

Assistant Manager

Oct. 2019 – Aug. 2021

Gravity Climbing Gym

Hamilton, ON

- Managed staff and handled sales, with broad responsibilities throughout the gym
- Took ownership of new initiatives, such as a Bluetooth music system
- Worked as part of a team to ensure smooth gym operations

Belay Instructor

Aug. 2019 – Aug. 2021

Gravity Climbing Gym

Hamilton, ON

- Led in-depth courses of up to a dozen customers
- Taught customers how to belay, as well as best safety practices

Youth Coach

Feb. 2018 – Dec. 2020

Gravity Climbing Gym

Hamilton, ON

- Head coach of a semi-competitive youth climbing program
- Developed and led lessons, workouts, drills, etc.

PROJECTS

Physics Engine | *Java, Java AWT*

- Created a basic physics engine from scratch using Java AWT
- Explored and implemented optimizations to handle large numbers of objects
- Implemented a hybrid of time-based and event-based calculations to improve efficiency

Sudoku Solver | *C++*

- Researched optimal strategies to solve sudoku problems
- Implemented the dancing links algorithm using doubly linked lists to maximize the program's solving speed

Carrier Pigeon | *Java, Socket*

- Utilized socket to create a local messaging application in Java from scratch

AWARDS

Computing

- Distinction in the 2021 Canadian Computing Competition (Senior Division), Ranked 379/2920
- Distinction in the 2020 Canadian Computing Competition (Senior Division), Ranked 204/2827

Other

- UWaterloo Financial Literacy Competition Junior 1st Place
- Ontario Lead Climbing Provincials Finalist

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science, 90% Average

Sept. 2021 – April 2026

- President's Scholarship of Distinction