

# Oliver M. Tattersall

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## TECHNICAL SKILLS

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**Languages:** Python, Javascript, HTML, CSS, Racket, MySQL, C, Java, C++

**Frameworks:** NumPy, Bs4, React.js, openpyxl, Materialize, Bootstrap, leaflet.js, jquery.js, Django, React Native, node.js, Spring, React Query

**Tools:** Git, GitHub, Firebase, Linux

## ACADEMICS

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University of Waterloo | *Candidate for Bachelor of Computer Science* | *Minor in Physics* | Term 1B

**Cumulative Average:** 4.00 GPA (95%)

**Awards:** Dean's Honour's List, President's Scholarship of Distinction

**Extracurriculars:** Member of Computer Science Club, Pure Maths Club, Rockclimbing Club; Intramural Volleyball

## WORK EXPERIENCE

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**Ski Instructor | Heights of Horseshoe | (Dec 2019 - Mar 2021):**

- leading diverse groups of 12 and Unders in technique development and goal-setting

**Ski Supervisor | Heights of Horseshoe | (Dec 2021 – Mar 2022):**

- in charge of creating, scheduling classes/learning modules for other Ski Instructors, as well as managing and helping parents of skiers

**Stock Manager | GetOutside | (Jun 2022 – Aug 2022):**

- In charge of organizing stock, handling shipments, and helping with sales at a shoe store

**Tutor | Self-Managed | (Sept 2018 – Mar 2022):**

- Tutoring for Computer Programming, Mathematics, Chemistry and English with middle school and high school GTA students - **as a volunteer with Horizons program (2018-2022)**, and for pay (2020-2022)

## PROJECTS

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**Historical Website:** <https://olivertattersall.github.io/NorthTorontoHistory/>

- Created a website that details the history of North Toronto, a neighbourhood in Toronto, using JS, HTML, CSS, Firebase
- Manipulates image to allow for a side-by-side comparison, where a slider is overlayed to change how much of each photo is shown to compare historical photos to now
- Uses firebase database to allow for others to post their own stories and history about the neighbourhood to give it a personalization

**Graph Traversal Visualization:** <https://oliver-tattersall-github-io-mfos.vercel.app/>

- Website built using react to learn and practice graph traversal
- Visualizes Dijkstra's Algorithm between two nodes in a grid, travelling around walls and weights to find smallest distance

**Sudoku Player:** <https://olivertattersall.github.io/sudoku/>

- Created a website where people can play sudoku using HTML, JS, and CSS
- Uses recursive backtracking to solve the sudokus if needed.
- Fetches from a sudoku generator API to get different difficulties of puzzles

## SOFT SKILLS

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- **Excel in Teams:** I enjoy and excel at working with other people, both as a member and a leader
- **Independent Learning:** I always strive to learn more on my own and am able to facilitate my own learning through research on the internet and asking others for help if needed