

SAMIEN BELL

437-344-1932 | s8bell@uwaterloo.ca | [LinkedIn](#)

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Science in Mathematical Physics – Cumulative GPA: 96%

April 2028

- Coursework: Elementary Algorithm Design and Data Abstraction; Probability; Calculus III; Linear Algebra II; Mechanics; Waves, Electricity and Magnetism; Modern Physics; Intro to Differential Equations; Chemistry II
- Clubs: Musical Director of UM A cappella; Spikeball Intramural Team Captain; SERVE Volleyball

EXPERIENCE

Outlier

Remote - San Francisco, CA

AI Trainer

May 2024 – December 2024

- Train various large language models to solve complex math problems by providing step-by-step analytical feedback when necessary, resulting in the advancement of AI's mathematical capabilities.
- Executed flawless 5-star tasks by meticulously crafting prompts to realign the model's mathematical process, resulting in a promotion to review tasks further down the project pipeline.

Mathnasium

Toronto, ON

Math Tutor

April 2024 – August 2024

- Collaborated with a team of tutors to teach 100+ elementary and high school math students of various mathematical backgrounds, resulting in the engraving of fundamental math skills in the minds of the next generation.
- Delivered one-on-one lessons in quantum mechanics and special relativity, resulting in perfect exam scores.

University of Waterloo

Waterloo, ON

Residence Ambassador

October 2023 – April 2024

- Led engaging residence tours with co-ambassadors to help prospective students decide about living on campus.
- Communicated information to guests with friendliness and professionalism by answering questions, offering advice, or giving directions, resulting in excellent customer satisfaction.

Saint Elizabeth Foundation

Toronto, ON

Volunteer

December 2020 – January 2021

- Partnered with Netflix and Google in a charity initiative to donate devices and accounts to seniors across Ontario.
- Configured hundreds of accounts for the recipients, while organizing project data in a shared Excel file with the team.

PROJECTS

Personal Website | [Link](#) | HTML, CSS, JavaScript, Bootstrap

September 2024

- Developed a personal website using a modified Bootstrap hero and a custom CSS gradient background to aggregate my career summary and contact information.

Chess Knight Movement Simulator | Python

December 2023

- Developed a recursive algorithm with random number generation to model the movement of a knight.
- Conducted Monte Carlo simulations by running 100,000+ trials to estimate the average number of moves needed for the knight to reach a target square.

GetAway Guru | Java, Swing

February 2023 – June 2023

- Developed a GUI travel recommendation program, implementing a database with 100+ destinations.
- Led a group of 5 through the software development life cycle, resulting in an A+ grade.
- Designed an algorithm to recommend destinations for users based on their previous logged trips using a HashMap.

ADDITIONAL

Technical Skills: Python, SQL, Java, C, HTML/CSS, JavaScript, Microsoft Excel

Libraries/Frameworks: NumPy, pandas, Matplotlib, Bootstrap

Languages: Fluent in English and French. Elementary in Dutch and Spanish

Citizenship Status: Canadian Citizen