

SAMIEN BELL

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Science in Mathematical Physics – Cumulative GPA: 4.0/4.0

September 2023 – April 2028

- Coursework: Elementary Algorithm Design and Data Abstraction (C); 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 – June 2024

- Collaborated with a team of tutors to teach hundreds of elementary and high school math students of various mathematical backgrounds, with the goal of engraving fundamental math skills in the minds of the next generation.
- Adapted to the Mathnasium teaching method by re-imagining my understanding of fundamental mathematics.

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 | *HTML, CSS, JavaScript, Bootstrap*

September 2024

- Developed a simple website containing essential information about me to demonstrate my web design skills.

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 hundreds of 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 history using a HashMap.

SKILLS

Programming Languages: Python, SQL, Java, C, HTML/CSS, JavaScript

Libraries/Frameworks: NumPy, pandas, Matplotlib, Bootstrap

Soft Skills: Leadership, Communication, Organization, Problem Solving, Collaboration, Adaptability, Critical Thinking

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