


# Sourav Biswas

Computer Science and Business Double Degree Student

University of Waterloo, Class of 2022

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## Skills

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- **Proficient:** Python, Java, HTML/CSS.
- **Prior Experience:** Android, JavaScript, JQuery, Firebase, Scikit-Learn, Pandas, Matplotlib.

## Projects

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### Algorithmic Trading

*Python, Scikit-Learn, Pandas, Matplotlib*

- Implements a machine learning trading algorithm built using scikit-learn.
- Accesses historical stock prices using the Google Finance API and pandas.
- Illustrates results using matplotlib.
- Predicts stock price movements with 75% accuracy when price changes were randomized.

### Showdown

*Android, Java, Firebase*

- A flash math Android app built with a Firebase database.
- Users can compete against each other while viewing live results.

### Tanks

*Python*

- A game created with a Python GUI where users battle with tanks in a maze.
- Created an AI opponent which implements the A\* search algorithm for pathfinding.

## Experience

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### Computer Science Club Leader

**Sir John A. Macdonald S.S.**

**June 2016 – June 2017**

- Developed a curriculum teaching programming languages and computer science concepts.
- Improved club attendance from 50 to over 70 members by restructuring the club curriculum.
- Topics explored include HTML/CSS, JavaScript, recursion, data structures and GUIs.

### Engineering Outreach, Volunteer

**University of Waterloo**

**July 2016 – December 2016**

- Assisted in STEM related camp lessons and activities for campers from ages 4 to 14.
- Lessons incorporated Java, JavaScript and Python.

## Awards

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- **Galois Math Contest:** Placed in the top 0.5% internationally.
- **ECOO Programming Provincial Championship:** Placed top 9 out of 400 teams that initially entered this contest.
- **René Descartes National Scholarship:** A \$25 000 scholarship awarded based on passion for mathematics and distinguished academic standing.
- **Governor General's Academic Medal:** Graduated with the highest academic standing out of a high school graduating class of 250 students.
- **Offered a Schulich Leader Scholarship:** An \$80 000 scholarship offered by Western University based on academic excellence, leadership and passion for STEM related fields.