Sourav Biswas

Computer Science and Business Double Degree Student

University of Waterloo, Class of 2022

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Skills

- **Languages:** Python, Java, JavaScript, HTML/CSS.
- **Technologies:** Android, AutoCAD, Solid Edge.

Projects

Stock Analyzer *Java*

- Accesses historical stock prices using the Google Finance API.
- Constructs trend lines and correlation coefficients.
- Applies a SMA algorithmic trading strategy.
- Displays holding periods and return rates throughout the selected time period.

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.

Algorithmic Trading *Python*

- Implements a machine learning trading algorithm built using scikit-learn.
- Predicts stock price movements with 75% accuracy on stocks where price changes were randomized.
- Returns 204% of the amount yielded from holding the stock for the period.

Experience

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 explored technologies such as Java, JavaScript and Arduino.

Awards

- **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 average across all grade 11 and 12 courses 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.