Sourav Biswas

Computer Science and Business Double Degree

University of Waterloo, Class of 2022 (Expected)

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Summary of Qualifications

- **Proficient:** Python, Java, HTML/CSS, JavaScript, JQuery, Android, Racket.
- **Familiar:** C/C++, Firebase, Scikit-Learn, Pandas, Matplotlib.

Selected Projects

SumNotes   September 2017

Python, HTML/CSS, JavaScript, JQuery, Flask, SQL   Hack the North Winner – Best Use of Cockroach Database

- Created a web application used for automatic taking notes in lectures or meetings.
- Takes in audio feed from lectures, performs speech to text analysis using the Google Speech API and summarizes the key points using the SUMY API in Python.
- Implements a user login system through a Cockroach database.

Algorithmic Trading   July 2017

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   July 2017

Android, Java, Firebase

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

Experience

Engineering Outreach, Volunteer   July 2016 – December 2016

University of Waterloo

- Assisted in STEM related camp lessons and activities for campers from ages 4 to 14.
- Explored topics such as HTML/CSS, JavaScript, Python, data structures, app development and GUIs.

Computer Science Club Leader   June 2016 – June 2017

Sir John A. Macdonald S.S.

- Developed a curriculum teaching programming languages and computer science concepts.
- Improved club attendance from 50 to over 70 members by restructuring the club curriculum.

Awards

2017   **Offered a Schulich Leader Scholarship:** An $80 000 scholarship offered by Western University based on academic excellence, leadership and passion for STEM related fields.

2017   **René Descartes National Scholarship:** A $25 000 scholarship awarded based on passion for mathematics and distinguished academic standing.

2017   **Governor General's Academic Medal:** Graduated with the highest academic standing out of a high school graduating class of 250 students.

2016   **ECOO Programming Provincials:** Placed top 9 out of 400 teams that initially entered this contest.

2015   **Galois Math Contest:** Placed in the top 0.5% internationally.