

# Sourav Biswas

Computer Science and Business Double Degree  
University of Waterloo, Class of 2022 (Expected)

(519)-888-9891 ☎  
s23biswa@edu.uwaterloo.ca ✉  
github.com/SravB 🌐  
linkedin.com/in/sravb 📄  
sravb.github.io 🌐

## Summary of Qualifications

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

## Selected Projects

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### SumNotes

September 2017

*Python, HTML/CSS, JavaScript, JQuery, Flask, SQL*

*Hack the North Winner – Best Use of Cockroach API*

- 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 an SQL database with the Cockroach API.

### 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

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### 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 and app development.

### 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.
- Explored topics include HTML/CSS, JavaScript, recursion, data structures and GUIs.

## 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.