

Sourav Biswas

Computer Science and Business Double Degree
University of Waterloo, 2017 - 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 app that takes notes in lectures or meetings.
- Performed speech to text conversion using the **Google Speech API**
- Summarized key points using the **SUMY API** in Python.
- Implemented a user login system through a **Cockroach Database**.

Algorithmic Trading

July 2017

Python, Scikit-Learn, Pandas, Matplotlib

- Implemented a machine learning trading algorithm with **Scikit-Learn**.
- Accessed historical stock prices using the **Google Finance API** and **Pandas**.
- Illustrated results using **Matplotlib**.
- Predicted stock price movements with **75% accuracy**.

Showdown

July 2017

Android, Java, Firebase

- Developed a flash math mobile app built with **Android** and **Firebase**.
- Users could 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.

- Taught lessons which covered programming languages and computer science concepts.
- **Improved club attendance by 40%** (50 to 70 students) through restructuring club curriculum.

Awards

- 2017 **Offered a Schulich Leader Scholarship:** Offered an **\$80 000 scholarship** by Western University based on academic excellence, leadership and passion for STEM related fields.
- 2017 **René Descartes National Scholarship:** Awarded a **\$25 000 scholarship** based on passion for mathematics and distinguished academic standing.
- 2017 **Governor General's Academic Medal:** Graduated with the top academic standing **out 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.