

Sourav Biswas

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Education

University of Waterloo

(Expected) 2017 – 2022

Honours Bachelors of Computer Science

- Cumulative Average – 95.0% (4.0/4.0 GPA)

Wilfrid Laurier University

(Expected) 2017 – 2022

Honours Bachelors of Business Administration

- Cumulative Average – 95.0% (4.0/4.0 GPA)

Projects

SumNotes

Sep 2017

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

- Created a web app that autonomously takes summarized notes in lectures or meetings.
- **Won Hack the North 2017** – Best Use of Cockroach Database.
- Implemented a user login system with SQL.

Algorithmic Trading

Jul 2017

Python, Scikit-Learn, Pandas, Matplotlib

- Developed a machine learning stock trading algorithm with a **Decision Tree**.
- Predicted stock price movements with **75% accuracy**.
- Accessed historical stock prices using the **Google Finance API** and **Pandas**.

NBA Predictive Analytics

Dec 2017

Python, Scikit-Learn, Pandas, Matplotlib

- Created a data visualization tool to help coaches detect areas of the court to prioritize defense.
- Simulated players' shooting with machine learning using **K-Nearest Neighbours**.
- Analyzed NBA players' gameplay by data mining their shooting data.

Experience

Computer Science Instructor

Jun 2016 – Jun 2017

Sir John A. Macdonald S.S.

- **Improved class attendance by 40%** (50 to 70 students) through restructuring curriculum.
- Designed and delivered lessons on programming languages and computer science concepts.

Engineering Outreach

Jul 2016 – Dec 2016

University of Waterloo

- Organized STEM related lessons and activities for students from ages 4 to 14.
- Explored topics such as data structures, web development, mobile development and GUIs.

Skills

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

Awards

- **Schulich Leader Scholarship** – Offered **\$80 000** by Western University.
- **René Descartes National Scholarship** – Awarded **\$25 000** by the University of Waterloo.
- **Governor General's Academic Medal** – Top academic standing **out of 250** students.
- **ECOO Programming Provincials** – Placed **9th out of 400+** teams.
- **Galois Math Contest** – Ranked **top 0.5%** in the world.