

# Sourav Biswas

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## Education

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**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

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**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

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**Computer Science Instructor** Jun 2016 – Jun 2017

*Sir John A. Macdonald S.S.*

- **Improved class size 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

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

## Awards

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- **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 **9<sup>th</sup> out of 400+** teams.
- **Galois Math Contest** – Ranked **top 0.5%** in the world.