

# Advait Maybhate

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## Work Experience

- July-August, 2017 **Software Engineering Intern, Christie Digital Systems Incorporated, C++, Python**  
Developed a visualization system for the results of system tests and improved machine vision algorithms in Christie AutoCal, a product that allows for advanced 3D projection mapping capabilities.
- 2016-present **Lab Assistant, Sir John A. Macdonald S.S., Waterloo Region District School Board**  
I organize chemicals/supplies, prepare experiments for students, and help teachers perform labs.
- August, 2016 **Software Engineering Intern, Christie Digital Systems Incorporated, C++, Python**  
Developed a graphical interface for a camera calibration tool and created a tool to measure colour accuracy of projectors. Mainly programmed in C++ and Python using the Agile process and SVN.

## Projects

- September, 2017 **SumNotes, Hack the North**  
Created SumNotes, a web application that allows users to summarize lectures (speech-to-text and summarizes the lecture). Won \$1,000 prize for the "Best Use of CockroachDB" in the backend (SQL database).
- August, 2017 **Timelime, Bonfire (hackathon)**  
Created a Chrome extension that allows Facebook messenger users to automatically analyze a group chat and quickly identify when friends are available/busy from messages such as "I am available from 3 pm to 5 pm tomorrow" (creates a visual timeline displaying the data), winning the 2<sup>nd</sup> place award.
- May, 2017 **A New Approach to Motif Discovery, Canada-Wide Science Fair**  
I created a novel algorithm, in Python, that used a comparative approach to identify motifs in DNA sequences up to 10x faster than previous algorithms. Motifs are patterns in DNA that can be linked to biological functions.
- March, 2017 **Pebble Prompter, WearHacks**  
Developed an automated teleprompter for the Pebble smartwatch, winning the 1<sup>st</sup> place prize.

## Awards

- 2017 **Silver Medal, Canada-Wide Science Fair**  
Won a silver medal, several scholarships valued at \$8,500 and the Statistical Society of Canada Award (\$1,000) for my project titled "A New Approach to Motif Discovery".
- 2016 **Gold Honours Award, Sir John A. Macdonald S.S.**  
Earned a 98% overall average in grade 10 which was the highest average in my grade.
- 2015-2016 **McMaster Science Olympics, McMaster University, Hamilton**  
Placed first (2015) and second (2016) in the software challenge and third (2015) in the egg drop challenge.
- 2014-2017 **Waterloo Wellington Science and Engineering Fair, Kitchener**  
Silver (2014) and Gold (2015, 2016 & 2017) medals in WWSEF (Waterloo Wellington Science and Engineering Fair). Also won the "Best in Division" award in 2015.
- 2013 & 2015-2016 **Math Competitions, CEMC, University of Waterloo**  
Earned a perfect score in Gauss (2013), school champion for Pascal (2015), Cayley (2016) & Galois (2016).

## Extra Curricular Activities

- 2016-present **Executive of Computer Science Club, Sir John A. Macdonald S.S.**  
Creates and presents lessons on topics such as recursion, object-oriented programming, and time complexity.
- 2015-present **President of Science Club, Sir John A. Macdonald S.S.**  
Organizes and presents activities in the club such as DNA extraction and liquid nitrogen ice-cream.
- 2014-present **Avro Arrow Club, Sir John A. Macdonald S.S.**  
Leads the club to design (using AutoCAD & Solid Edge), build, test and race 12V/24V cars.

## Education

- 2014-2018 **High School, Sir John A. Macdonald Secondary School, Waterloo, Grade 12**
- July, 2016 **SHAD Fellow, Carleton University, Ottawa**  
Completed the SHAD program, specializing in STEM fields. Created a business plan for a startup to help solve the issue of food security in Canada.