

Advait Maybhate



Experience

- Jul - Aug, 2018 **Software Prototyping Intern, Thalmic Labs Inc.**, React, JavaScript
- Rapidly developed software prototypes relating to a confidential new product
 - Automated the GitHub pull request flow for over 200 employees
- Jul - Aug, 2017 **Software Engineering Intern, Christie Digital Systems Inc.**, C++, JavaScript
- Developed a visualization dashboard for system test results, catching a 20% regression in performance
 - Improved machine vision algorithms in Mystique, a product for advanced 3D projection mapping
- Aug, 2016 **Software Engineering Intern, Christie Digital Systems Inc.**, C++, Python
- Developed GUI for a camera calibration tool
 - Created a tool to measure colour accuracy of projectors
 - Utilized the Agile development process and Subversion (SVN) version control software

Projects

- May, 2018 **3DPocket – Prediction of Protein-Ligand Binding Sites, Canada-Wide Science Fair (CWSF)**, Python
- Created a novel geometry-based algorithm to predict protein binding sites by comparing the convex hull and Connolly surface with over 85% accuracy
 - Can be used in drug design to inhibit specific proteins e.g. HIV-1 reverse transcriptase
 - Won silver medal at CWSF 2018
- Sep, 2017 **SumNotes, Hack the North**, JavaScript, SQL
- Created SumNotes, a web application to summarize lectures (speech-to-text)
 - Won \$1,000 prize for the “Best Use of CockroachDB” in the backend (SQL database)
- Aug, 2017 **Timelime, Bonfire (hackathon)**, Node.js, JavaScript
- Created a Chrome extension for Facebook messenger to automatically analyze a group chat and quickly identify availability of people from messages, using natural-language processing
 - Won the 2nd place award
- May, 2017 **A New Approach to Motif Discovery, Canada-Wide Science Fair (CWSF)**, Python
- Created a novel algorithm that uses a comparative approach to identify motifs in DNA sequences
 - 10x faster than previous algorithms
 - Won silver medal and Statistics Society of Canada Award at CWSF 2017
- Mar, 2017 **Pebble Prompter, WearHacks**, C, JavaScript
- Developed an automated teleprompter for the Pebble smartwatch using Firebase
 - Won the 1st place prize

Awards

- 2018 **Schulich Leader Scholarship, University of Waterloo**
- 2018 **Sean Jackson Scholarship, Meridian Credit Union**
- 2016 - 2018 **Gold Honours Awards (98% average), Sir John A. Macdonald S.S.**
- 2014 - 2018 **Gold Medals, Waterloo Wellington Science and Engineering Fair (WWSEF)**

Extra Curriculars

- 2017 - 2018 **Founder of JAMHacks, Sir John A. Macdonald S.S.**
- Over \$10,000 in sponsorships and 200 competitors
- 2016 - 2018 **Executive of Computer Science Club, Sir John A. Macdonald S.S.**
- Presented lessons on recursion, cryptography, and time complexity, etc., to over 50 students
- 2015 - 2018 **President of Science Club, Sir John A. Macdonald S.S.**
- Led activities such as DNA extraction and liquid nitrogen ice-cream

Education

- 2018 - 2023 **University of Waterloo, Honours Computer Science (BCS), Co-op**
- 2014 - 2018 **Sir John A. Macdonald Secondary School, Waterloo, ON**
- Jul, 2016 **SHAD Fellow, Carleton University, Ottawa, ON**