



# Alan Ma

 (437) 993-5600

 alan.xr.ma@gmail.com

 <https://alan-ma.ca>

 Mississauga, Ontario

## Education

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**University of Waterloo** 2018-2023  
Software Engineering

**The Woodlands Secondary School** 2014-2018  
Honours Award; 97% Average

## Work Experience

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**Software Development Internship** 2017  
at SOTI Inc.

- Frontend development in the Research and Development branch using Angular
- Created a style and design guideline for consistency across products
- Committed to projects using Git, undergoing code review and resolving merge conflicts
- Worked in a team using agile development, participating in scrum meetings

**Product Development Internship** 2016  
at Prolexion (start-up grammar software company)

- Conducted a competitive analysis covering technical functionality and user experience
- Created a web application to input, store, and analyze test cases
- Wrote reports that detailed product suggestions for future implementation

**Machine Learning Co-op Student** 2016  
at The Foundation for Student Science and Technology

- Researched machine learning and submitted update reports to co-op mentor
- Wrote a paper titled "Applications of Machine Learning in Education," which has passed Ph.D. peer review and has been published in the Journal of Student Science and Technology

## Activities and Awards

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- 2017 Winner of Hack the North – Received PagerDuty's sponsored API award for Vera, an accessible home surveillance system
- 2017 Placed in the 93<sup>rd</sup> percentile in the Canadian Open Mathematics Competition
- 2017 Google Codejam Qualifier; placed in the top 28% worldwide in the open category
- 2017 Placed 1<sup>st</sup> at DECA Regionals; 4<sup>th</sup> at the provincial level; finalist (top 20) at internationals in Anaheim, California
- 2016 SHAD Fellow, Alumni of SHAD 2016 at Memorial University of Newfoundland
- 2016 Achieved a perfect score in Waterloo's Junior Canadian Computing Competition
- 2015 School champion in the Canadian Intermediate Mathematics Contest

## Extracurricular Activities

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**VP of Treasury** at Debate Club 2014–Present

- Managed weekly activities managed club funds
- Competed at many debate competitions with teams from across the country
- Taught lessons to over 70 members
- Used spreadsheets to record tournament results

**VP of Administration** at DECA 2014–Present

- Developed and managed an online student hub website and database
- Managed and tutored members in the Business Management and Administration cluster

**Editor-in-Chief** of The Woodstock 2014–Present

- Oversaw the design process of the school newspaper, distributed to over 800 students
- Directed workflow and delegated tasks
- Managed the Facebook page with over 1000 likes