



# Alan Ma

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 <https://alan-ma.ca>

 Waterloo, Ontario

## Education

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

**The Woodlands Secondary School** 2014 – 2018  
Honours Award; Mathematics Award

## Experience

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**Software Development Internship** 2018  
SOTI Inc. – Development Operations

- Saved over \$30,000 a year by prototyping a new process to sign Windows Mobile applications
- Assessed the feasibility and ramifications of upgrading build systems to PowerShell Core
- Built testing pipelines in GoCD and ran agents on virtual machines configured in Hyper-V

**Software Development Internship** 2017  
SOTI Inc. – Research and Development

- Extended functionality of front-end web application using Angular
- Facilitated consistency across products by creating a style and design guideline
- Contributed in a team of 20 using agile development, tracking progress through Jira

**Product Development Internship** 2016  
Prolexion – Grammar Checking Software Start-Up

- Conducted a competitive analysis covering technical functionality and user experience
- Increased team efficiency by creating a web application to automate the analysis of tests

**Research Co-op Student** 2016  
Foundation for Student Science and Technology

- Wrote a paper titled “The Application of Machine Learning to Education”
- Published in the Journal of Student Science and Technology – Volume 10, No. 1 (2017)

## Skills

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### Languages:

JavaScript; HTML; CSS; Python

### Tools:

Angular; Node.js; Git; Jira; AWS

## 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 DECA (Business Competition): Placed 1<sup>st</sup> at the regional level; 4<sup>th</sup> at the provincial level; top 20 at internationals in Anaheim, CA
- 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 Administration** – DECA 2014 – 2018

- Developed and managed an online student hub using Angular and Firebase
- Tutored members in the Business Management and Administration cluster

**Editor-in-Chief** – The Woodstock 2014 – 2018

- Oversaw the design process of the school newspaper, distributed to over 800 students
- Directed workflow and delegated tasks to a team of writers, photographers, and designers
- Updated and managed social media accounts, including a Facebook page with over 1000 likes