

Alan Ma

(437) 993-5600
alan.xr.ma@gmail.com
Mississauga, Ontario

Technical Skills

Web Development

- Designed websites and web applications using HTML, CSS, JavaScript, jQuery, Bootstrap, and Angular 4
- Created a server using Raspbian and Nginx to host websites and allow SSH remote access
- Experience in Amazon Web Services (S3, EC2)

Machine Learning

- Implemented machine learning algorithms in MATLAB, including linear and logistic regression, gradient descent, and neural networks

Work Experience

Software Development Internship 2017

at SOTI Inc.

- Frontend development in the Research and Development branch using Angular 4
- 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 at a university level
- Wrote a paper titled "Applications of Machine Learning in Education," which has passed PhD peer review and is awaiting publication in the Journal of Student Science and Technology

Activities and Awards

- 2017** Winner of Hack the North – Won PagerDuty's sponsored API award for Vera, an accessible home surveillance system
- 2017** Google Codejam Qualifier; placed in the top 28% worldwide in the open category
- 2017** Placed 1st at DECA Regionals; 4th 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** Top 1% in the Canadian Intermediate Mathematics Contest
- 2014** Top 1% in the Pascal mathematics contest
- 2014** Ontario Principals' Council Leadership Award
- 2013** First Place in Professional Engineers of Ontario's annual Mathletics Challenge

Extracurricular Activities

VP of Treasury at Debate Club 2014–Present

- Managed club activities, such as organizing rounds and managing funds exceeding \$1000
- 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