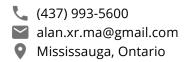
Alan Ma



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 Proloxion (start up grammar software company)

- 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 top28% 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 IntermediateMathematics 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