Alan Ma

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Technical Skills

Web Development
- Designed websites and web applications using HTML, CSS, JavaScript, jQuery, Bootstrap, and Angular
- Created a server using Raspbian and Nginx to host websites and allow SSH remote access

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   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

Executive of Computer Science Club   *2015–Present*
- Taught lessons to a club of over 30 members, covering programming and problem-solving skills

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