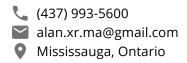
Alan Ma



Technical Skills

Web Development

- Designed websites and web applications using HTML, CSS, JavaScript, ¡Query, AngularJS.
- Created a server using Raspbian and Nginx to host websites and allow remote access.

Operating Systems

- Installed and set up Windows 10, 8.1, and 7 systems
- Installed Linux, Raspbian, and Ubuntu systems
- Partitioned hard drives and reformatted disks
- Troubleshooting application issues

Machine Learning

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

Data Processing

• Parsed and manipulated data in Python to obtain desired outputs given certain inputs.

Microsoft Office

- Familiar with Word, Excel, PowerPoint, and Outlook
- Tabulated data in Excel spreadsheets

Computer Assisted Design

- Used AutoCAD and 3DS Max to model designs
- 3D printed designs with PrintrBot Simple Metal

Experience

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 using HTML, CSS, JavaScript, and jQuery
- Wrote a report summarizing the strengths and weaknesses of competitors, as well as suggestions for our own product.

Machine Learning Co-op Student

2016

at The Journal for Student Science and Technology

- Researched machine learning at a university level
- Worked together with a graduate student from The University of Waterloo
- Wrote a paper titled "Applications of Machine Learning in Education," which has passed through PhD peer review and is undergoing final editing before publication.

Education

High School Student

Current

The Woodlands Secondary School
Honours Award

Activities and Awards

Current Average: 96%

• Top 1% in The University of Waterloo's F

- Top 1% in The University of Waterloo's Pascal mathematics contest (2014) and Canadian Intermediate Mathematics Contest (2015)
- Achieved a perfect score in Waterloo's Junior Canadian Computing Competition (2016)
- Ontario Principals' Council Leadership Award at Edenrose Public School (2011) and Dolphin Senior Public School (2014)
- First Place in Professional Engineers of Ontario's annual Mathletics Challenge (2013)
- SHAD Fellow, Alumni of SHAD 2016 at Memorial University of Newfoundland
- Won 1st place in 2016 Regionals for Business Law and Ethics Team Decision Making

Extracurricular Activities

Executive of Computer Science

2015-Present

- Responsible for teaching lessons to a club of over 30 members
- Taught programming and problem solving skills for competitions

Treasurer of 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 manage tournament results

Director at DECA

2014-Present

 Taught lessons to the Business Management and Administration cluster

Editor-in-Chief of The Woodstock 2014–Present

- Responsible for the design of the school newspaper
- Directed workflow and delegated tasks to reporters
- Managed the Facebook page with over 1000 likes