

Colin Vandenhof

(782) 234-0118 ◊ colinvandenhof@gmail.com

EDUCATION

University of Waterloo

Master of Mathematics (Computer Science)

January 2018 - present

GPA: 4.00 / 4.00

- Alexander Graham Bell Canada Graduate Scholarship. (\$17500, 2019-2020)
- President's Graduate Scholarship (\$5000, 2019-2020)
- David R. Cheriton Graduate Scholarship (\$10000, 2018-2019)
- Mathematics Domestic Graduate Student Award (\$3000, 2018-2019)

Dalhousie University

Special Undergraduate of Science (Computer Science)

September 2016 - April 2017

GPA: 4.00 / 4.00

- MacKenzie Scholarship (\$2000, declined)

McMaster University

Bachelor of Health Sciences (Honours)

September 2012 - April 2016

GPA: 3.94 / 4.00

- Provost's Honour Roll Medal (2016)
- President's Award (\$2500, 2012)

PUBLICATIONS

A Hybrid Approach to Identifying Unknown Unknowns of Predictive Models. Vandenhof, C. In Proceedings of the 7th AAAI Conference on Human Computation and Crowdsourcing.

Contradict the Machine: a Hybrid Approach to Identifying Unknown Unknowns. Vandenhof, C. & Law, E. In Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems.

WORK EXPERIENCE

University of Waterloo, Waterloo, Ontario

Teaching Assistant

January 2018 - present

- Fall 2019, Winter 2019, Spring 2018 - CS 486/686: Introduction to Artificial Intelligence
- Winter 2019 - CS 480/680: Introduction to Machine Learning
- Winter 2018 - CS 136: Elementary Algorithm Design and Data Abstraction

Responsible for holding office hours, answering questions on course forums, proctoring, and marking.

Element AI, Toronto, Ontario

Applied Research Intern

May 2019 - August 2019

Conducted research into uncertainty quantification, and the use of utility models for decision-making in production deep learning systems. Model development and experimentation in Python using PyTorch. Creation of interactive data visualization tools in JavaScript using D3.js.

Blockcrushr Labs, Halifax, Nova Scotia

Software Developer

September 2017 - December 2017

Development of universal web application for charitable giving backed by the Ethereum blockchain. Front-end web development in React. Implemented user authentication using JWT. Integration with Node.js back-end.

Atlantic Lottery Corporation, Halifax, Nova Scotia

Summer Student - Software Development

June 2017 - August 2017

Development of Amazon Alexa application with Node.js and deployment with AWS. Development of web scraper in Javascript and deployment of lottery results RESTful API with AWS. Integration of API with Ruby on Rails web application. Front-end web development in React.

Dalhousie University, Halifax, Nova Scotia

Teaching Assistant

May 2017 - August 2017

- Spring 2017 - CSCI 3120: Operating Systems

Responsible for editing assignments, leading in-class activities, proctoring, and marking.

TECHNICAL SKILLS

Programming Languages

Proficient:

Python, JavaScript, Bash

Previous experience:

C/C++, Java, R, MATLAB

Software and Frameworks

Version control:

Git, SVN

Web technologies:

React, HTML/CSS, Flask, Node.js, PostgreSQL

colinvdh.com ◊ github.com/ColinVDH