Nolan McMahon

nolanmcmahonemail@gmail.com
nolanthenerd.github.io
References - Available upon request.

Education:

University of Calgary: B.Sc. (Hons) in Physics, 2019
- GPA of 3.78 in my final semester with a GPA of 3.55 overall.
- Wrote seniors honours thesis on using the Ising model to measure the quantum speedup of D-Wave's 2000Q quantum computer under the supervision of Dr. Barry Sanders.
- Advanced studies beyond honours level in computational physics classes, focusing on neural networks, multiprocessing, and hardware manipulation, receiving an A+.

Work Experience:

2019 – Present Machine Learning Specialist, LoKnow:

I am the sole machine learning specialist in the Technology and Development department at LoKnow, a digital marketing and technology startup in Alberta. Right now, I am building machine learning models to collect online inventories, profile customers, and optimize our advertisers' return on ad spend (ROAS). My work has resulted in an advertising product called Rover which is available for purchase.

2018 Teaching Assistant, Undergraduate Physics Labs, University of Calgary:

Taught weekly lab exercises for incoming freshmen in the science faculty. My tasks included guiding students through the experiments and working with the students in a small group setting to solidify their understanding of the physical principles at play in the lab and in their lectures. I received glowing feedback at the end of the course from the students I assisted.

2017 Adobe Flash Animator Assistant, City of Calgary Summer Student Position:

Built corporate dashboard widgets with Adobe Actionscript 3.0. I completed all work term assignments in the first month of my four month employment term. Then for a challenge I rebuilt all widgets in Javascript for HTML5 before the end of the summer.

2015 - 2019 Tutoring:

Provided tutoring services in Physics 20, Physics 30, Math 9, Math 10C, Math 20-1, Math 20-2, Math 30-1, Math 30-2, and Math 31 as a volunteer in high school, the Calgary Tutoring Centre and with individuals who sought me out.

Technical Skills:

Applications: Scikit-Learn, Keras, TensorFlow, spaCy, Jupyter, Spyder, Anaconda Python Distribution.

Programming Languages: Python, Adobe Flash Actionscript 3.0, LaTeX, Logo, Mathematica.