

Griffin Clark

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OVERVIEW

Dedicated, organized and collaborative sophomore in Engineering Physics at Queen's University with a passion for technology, specifically interested in quantum computing and AI/ML. Proficient in python, Java, and SolidWorks with knowledge of React, C/C++, and Linux. Former national gymnast who enjoys running, skiing and watching films with friends.

EDUCATION

QUEEN'S UNIVERSITY, Kingston, Ontario

Bachelor of Engineering Physics & Computing, September 2018- May 2023

- Cumulative GPA of 3.70/4.3, Dean's List Honors Student for past 2 years.
- Recipient of Principle's entrance scholarship valued at \$4000.

RELEVANT EXPERIENCE

MCDONALD INSTITUTE, Remote (Kingston, ON)

Research and Outreach Fellow, May 2021 – September 2021

- Advanced research in dark matter through the **complex mathematical modelling** of stellar and galactic formations with the use of the Queen's **supercomputer server**
- Quickly adapted to unfamiliar hydrodynamic modelling software such as **GIZMO, yt and DICE**
- **Leveraged python fluency** to analyze data coming from the models, as well as teaching the language to high school students.
- Solidified clear and **concise communication skills** from teaching complex physics topics and ideas to 30 high school students.

QUEEN'S UNIVERSITY, Kingston, ON

PHYS 104/106 Teaching Assistant, September 2020 – April 2021

- Improved assignment grades of **30+ students** a week through a weekly three-hour virtual help session held for students.
- Facilitated the marking of **150+ weekly assignments**, relaying marks to students within 2 days of submission.
- Resolved assignment and course material questions through personal Zoom problem solving meetings with students by request.

QMIND, Kingston, ON

Design Team Member, September 2019 – April 2021

- Scraped, cleaned and implemented **Python** code in order to analyze data, train and test models to **detect and translate ASL** from a live feed, and **predict the stock direction** of a company based on the sentiment analysis of tweets using their hashtag.
- Expanded knowledge on **CNNs, SVMs and decision trees** in the process of creating a machine learning model, through the use of Python libraries such as **TensorFlow Keras, SciKit-Learn, PyTorch**, etc.
- Led creation of 2 user interfaces using **Javascript, React and css** to improve the presentation of our models.

QMIND, Kingston, ON

Director of Professional Development, May 2020 – April 2021

- Expanded the professional development knowledge and resources of **200+ members** of Canada's largest artificial intelligence club through the creation of club and school wide **events, initiatives and articles**.
- Oversaw the planning and implementation of multiple school-wide virtual panels with **100+ attendees** through collaboration with other QMIND streams such as Partnerships, Marketing and Events teams which helped develop my project management skills.

ADDITIONAL SKILLS AND INTERESTS

- **Programming Languages:** Fluent in Python through class & club experience, proficient in Java & C/C++ from coursework.
- **Conferences:** CUCAI 2021, UoFT AI Conference 2021, CUCAI 2020
- **Hackathons:** QHacks 2019, Camp QMIND Hackathon
- Bilingual, fluent in both English & French
- 2015 Canada Games athlete, staying active through Queen's Running Club and Queen's Ski & Snowboard Club
- Part time worker since 14 years old with experience at McDonald's, in the restaurant industry and spending a summer making chocolate from scratch at a local chocolate shop.