

Alexandria Roy

[in LinkedIn Profile](#) | [GitHub Account](#) | lexxie.roy@gmail.com | (905) 353-7769 | Niagara Falls, ON

Profile

Soon-to-be graduate with a strong passion for problem-solving. Throughout my academic journey and professional experiences, I have cultivated the ability to learn new skills quickly and apply them effectively to contribute to team success.

Skills

- Proficient in C++, Python, Java, R and HTML
- Proficient in CMSs such as Joomla and WordPress
- Experience with large scale data analysis
- Proficient with Word, PowerPoint, Excel, SharePoint, Teams, and Zoom
- Bilingual, fluent in French and English languages (verbal and written)

Education

Honours Physics Co-op (B.Sc.)

Expected graduation: **April 2025**

McMaster University, Hamilton, ON

- Courses of instruction include Principles of Programing, Scientific Computing, and Neural Networks & Machine Learning
- Developed a double pendulum model using C++ for Scientific Computing, applying optimization and data analysis principles to simulate complex motion

Work Experience

Project Support Assistant

February 2021 – August 2023

McMaster University, Science IT team – Remote

- Provided technical support for website edits, using JIRA ticketing systems.
- Aided in migrating CMS from Joomla to WordPress
- Played a key role in redesigning department website's homepages to improved user experience.
- Created technical documentation for training in WordPress
- Used Screaming Frog to assist in webpage migration and large data set imports to WordPress via CSV
- Remediated PDF, Word, PowerPoint, and Excel documents to comply with WCAG 2.0 guidelines

Hyper-K mPMT Test Stand Researcher

September 2023 – December 2023

TRIUMF, Hyper-K team – In-person

- Automated large data acquisition, calibration, and quality control using C++ and Python scripts
- Set up various test configurations for quality assurance
- Experience in handling hardware components
- Analyzed the data from the electronics and characterized the PMTs and mPMTs for quality control
- Developed metrics to evaluate which components have acceptable quality control

Communications Assistant IIB

September 2024 – December 2024

McMaster University, Faculty of Social Science - Remote

- Provided website edits to comply to comply with WCAG 2.0 guidelines
- Enhanced website functionality by refining formatting, updating text content, and optimizing layout.