# **Alexandria Roy**

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## 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.