

CHARLOTTE MURAT

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EDUCATION

Bachelor of Applied Science, Engineering Physics (Option in Computing)

Graduating June 2026

Queen's University, Stephen J. R. Smith Faculty of Engineering & Applied Science

- Principal's Scholarship (admission average above 95%)
- Represented Queen's at the 2023 Experience Ventures National Hackathon; Placed in the Top 3
- 2x hackHer Hackathon winner

TECHNICAL SKILLS

Python, C, C++, C#, Java, JavaScript, TypeScript, CSS, HTML, Vue.js, React, PHP, SQL, Linux, LabVIEW, Git, DevOps, Docker, PyTorch, Scikit-Learn

PROFESSIONAL EXPERIENCE

5G Software Developer Co-op | Ericsson

Sep 2024 – Aug 2025

- Redesigned an internal ticketing system using **JavaScript**, **HTML**, and **PHP**, improving usability and efficiency for 50+ users.
- Collaborated with engineers to develop a cutting-edge 5G feature; Implemented and improved **YAML** product tests, increasing success rate to 100%.
- Organized and led various events for 150+ co-op students across the company.

Full-Stack Programmer | Office of the Privacy Commissioner of Canada

Oct 2023 – Aug 2023

- Developed 2 survey web applications for contractor screenings with **Vue.js**, **TypeScript**, and **HTML**, reducing processing time from several days to minutes.
- Improved CI/CD pipelines by optimizing **Azure DevOps** workflows; Increased developer productivity by automating testing and build processes.

Astrophysics Research Student | Queen's University, Department of Physics

May 2023 – Aug 2023

- Analyzed performance of **GALFIT** and **AstroPhot**, 2-dimensional photometry algorithms for astronomical images of galaxies, concluding that certain image areas require further integration.
- Made 30+ galaxy model comparisons by programming with **Python** libraries, visualizing changes across 6 parameters and 3 integration models.

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

President | Women in Science and Engineering, Queen's University Chapter

May 2025 – present

- Led a cross-functional team of **56 members** across 13 portfolios, reaching over **400+ women** annually through various events & initiatives.
- Oversaw and strategically managed a **\$20,000+** annual budget to support events, outreach, and operations.

Director of Sponsorship | Women in Science and Engineering, Queen's University Chapter

May 2024 – April 2025

- Secured **\$10,000+** in external funding from 10 companies, representing a **68% increase** from the previous year.
- Developed innovative outreach strategies that expanded the pool of interested companies, significantly increasing sponsorship opportunities.
- Led and managed a team of three sponsorship coordinators, organized bi-weekly meetings and delegated tasks to ensure effective communication efforts.

Vice-President of Competitions | Ontario Engineering Competition

May 2023 – Jan 2024

- Managed a team of **16 competition leads** and oversaw the development of 9 distinct competitions for 300+ participants.
- Led the development of a comprehensive consulting competition package in collaboration with **SNOLAB**, a leading astroparticle research laboratory.