

## SUMMARY OF QUALIFICATIONS

- **Languages:** Python, C++, SQL, R, C, VBA, (Unix, Bash)
- **Frameworks/Tools:** Scikit-Learn, PyTorch, Git, AWS, Docker, Jira, Confluence
- Effectively collaborated with diverse stakeholders to design and implement **novel tools** as a Data Science Intern
- Experienced in autonomously collecting project requirements and implementing **robust solutions** in a timely matter as a Junior Data Scientist
- Deployed **end-to-end automated products** as a Finance Automation Intern

## WORK HISTORY

### DATA SCIENCE (R&D) INTERN • Sunnybrook Research Institute

Toronto, ON • May 2023 to August 2023

- Implemented new **multi-objective optimization** problem and **scheduling simulation software** with **Python** and **GirobiPy** to create operating room schedules considering patient function and wait time while also achieving a **15%** resource saving
- **Cleaned, processed, and visualized** over **50,000** trauma cases and implemented **triple exponential smoothing** and **SARIMAX** models to guide surgical team with orthopedic operating room allocation
- Trained **binary classification** models with **Sklearn** to predict failure to gain medically significant improvements from knee replacements achieving best F1 score of **0.83**

### JUNIOR DATA SCIENTIST • ALS GoldSpot Discoveries Ltd

North Vancouver, British Columbia, BC • August 2022 to December 2022

- Trained and deployed **PyTorch** YOLOv7 **object detection** models, reducing inference time by **50%** and improving detection on small and partial instances
- Generated synthetic rock data using fine-tuned **text-to-image** Stable Diffusion model to perform SimCLR **self-supervised learning**
- Automated package creation and technical documentation publishing leveraging **Poetry, Sphinx, Docker, and GitHub Actions** to reduce user action by over **95%**

### FINANCE AUTOMATION INTERN • Bell Canada

Mississauga, ON • January 2022 to April 2022

- Implemented batch processing data pipeline for financial reporting process using **SQL, Power Query, and Excel** to decrease weekly run time by over **94%**
- Rectified over **80%** of purchase orders through deployment of automated **VBA**-powered data integrity reports to alert supply chain of incomplete purchases

### BUSINESS ANALYST INTERN • Bell Canada

Mississauga, ON • May 2021 to August 2021

- Created impactful dashboards using **Excel, Tableau, and R** to convey KPIs to team members and stakeholders
- Designed **VBA** tool that used business rules to fill in incomplete datasets of over **25,000** purchase orders with over **95%** accuracy

## EDUCATION

### Bachelor of Computer Science - Human-Computer Interaction • University of Waterloo

Waterloo, ON • Expected in April 2025

Relevant Courses:

- **Object-Oriented Software Development** : Designed, implemented, tested, and documented medium-sized programs in **C++** .