

## EDUCATION

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• <b>MSc, Computer Science with Artificial Intelligence</b></li><li>• <b>MScA, Biotechnology (<i>High Distinction</i>)</b><ul style="list-style-type: none"><li>◦ Transcriptomics Certificate</li><li>◦ Python Certificate</li></ul></li><li>• <b>Project Management Graduate Certificate (<i>High Distinction</i>)</b></li><li>• <b>Honors Bachelor of Science, Biology (<i>High Distinction</i>)</b><ul style="list-style-type: none"><li>• Recipient of the Dr. Kaye Hayashida Biology Award</li></ul></li></ul> | <p><b>University of York   07/2024 - Present</b><br/><b>McGill University</b></p> <p><b>Conestoga College</b><br/><b>Wilfrid Laurier University</b></p> |
|---|---|

## TECHNICAL SKILLS

- Programming & Development: Python (Pandas, NumPy, TensorFlow, Scikit-learn), SQL, Java, MATLAB
- Data Analysis: SPSS, Weka, Power BI, Tableau, MS Excel, Data Structures
- Machine Learning & AI: Neural Networks, Genetic Algorithms, Deep Learning, Predictive Modeling, Natural Language Processing (NLP)
- Biotechnology Techniques: ELISA, PCR, Protein Purification, Cell Culture, Plasmid Production, Viability Assays
- Data Visualization: Heatmaps, Correlation Graphs, Interactive Dashboards, Visual Reporting
- Tools & Platforms: Power BI, Tableau, SQL Server

## PROFESSIONAL EXPERIENCE

### Research Assistant

**07/2024 - Present**

*Hamilton Urban Core Community Health Centre*

- Led comprehensive qualitative and quantitative research projects, delivering actionable insights for stakeholders
- Performed advanced data analysis and statistical modeling using SPSS, SQL, and Power BI
- Enhanced data visualization for over 8,000+ client records, improving decision-making processes and data accessibility
- Designed and conducted surveys, interviews, and focus groups to support community health research initiatives
- Collaborated with multidisciplinary teams to deliver presentations and detailed reports for executive stakeholders

### Clinic Manager

**08/2021 - 07/2024**

*Crossroads North Medical Clinic*

- Managed outpatient operations, improving efficiency and patient outcomes through process optimization
- Oversaw clinical workflows including patient triage, intake procedures, and lab specimen analysis (hematology, neurology, toxicology)
- Coordinated with multidisciplinary teams to align treatment plans with patient care goals
- Streamlined medication management processes, ensuring alignment with diagnostic data and patient safety

### Research Associate Intern

**05/2023 - 09/2023**

*Targa Biomedical*

- Optimized transfection techniques in cell culture using nanoparticles and pharmaco-optimizers to enhance efficiency and cell viability
- Executed cell culture protocols, including cryopreservation, plasmid production, and bacterial cultures, ensuring optimal cell growth and maintenance
- Performed seeding, passage, plating, transfection, and assays (nuclei staining, live/dead, metabolic) to assess cell health and viability
- Collaborated on a cryopreservation viability protocol to improve cell viability assessments
- Worked effectively within a team, upholding aseptic techniques and lab safety standards
- Documented experiments rigorously and presented research findings clearly to lab members and supervisors

## CERTIFICATIONS

- Good Clinical Practice (GCP)
- Health Canada Division 5 Certification
- Transportation of Dangerous Goods (TDG/IATA)
- Responsible Conduct of Research (RCR)

## PROJECTS

- AI-Driven Child Mortality Prediction Application
  - Developed an accurate AI-powered tool to predict child mortality, leveraging TensorFlow, Neural Networks, and Scikit-learn
- Python-Based Student Activity Analyzer
  - Created a Python application to analyze activity logs, generating statistical outputs (mean, median, mode) and visualizations such as heatmaps and correlation graphs