

WORK EXPERIENCE

Full Circle Data Science Consulting

Sep 2021 – Present

Founder, Principal Data Scientist

- Identified and diagnosed data inconsistencies and led planning of methodology to address gaps.
- Engaged stakeholders to understand business needs and developed strategy for data capture and analytics.
- Led and executed diagnostic and predictive analytics to support data-driven business decision making.
- Guided research design and model validation, provided statistical consultation, and served as analytics expert on interdepartmental teams for large strategic initiatives.

Alcohol and Gaming Commission of Ontario

Aug 2021 – Present

Data Scientist

- Led and executed development of industry-leading quantitative model of market-wide supply chain risk.
- Designed data structures and end-to-end ETL data pipelines for capture and storage of regulatory data
- Created production quality, scalable tools and dashboards enabling experts to save 25% of planning time when beginning investigations.
- Built actionable KPIs to measure performance of predictive risk models.

Armstrong Monitoring Corporation

May 2019 – Aug 2021

Data Scientist

- Designed and implemented two patent pending algorithms for autocalibrating gas sensors using techniques from applied statistics. These improved calibration speed by roughly 90% and improved accuracy by over 80% relative to existing products.
- Developed quantitative models relevant to gas detection, improving product performance by roughly 60%.
- Created reports and dashboards to summarize technical results for consumption by both technical and nontechnical stakeholders.

HELUX Systems Inc.

May 2017 – May 2019

Data Scientist

- Developed proprietary information architecture web app using C#, HTML, CSS, TypeScript, SQL, and PowerShell programming languages.
- Developed data and AI solutions for clients using the Microsoft Azure and Power platforms.
- Led migrations of legacy applications to modern technology stacks for clients

EDUCATION

University of Ottawa

2015 – 2017

M.Sc. - Mathematics

University of Ottawa

2011 – 2015

B.Sc. Hon. - Physics and Mathematics – Magna Cum Laude

SKILLS & INTERESTS

- **Skills:** Python; R; Azure; AWS; SQL; ETL; Git; Data Visualization; Power BI; Statistics; Data Analytics; Quantitative Modeling; Machine Learning; Software Development; KPI Development
- **Interests:** Puns; guitar; woodworking and electronics; Magic the Gathering; boxing; retro gaming; Super Mario 64 speedrunning