

Ambitious Master of Artificial Intelligence Design & Development graduate student seeking a Data Analyst, Data Scientist, or ML Engineer WIL/Co-op (Sept 2026 – May 2027). Offering hands on experience in time series forecasting, predictive modeling, and frontend development to drive data driven decision making and scalable AI solutions.

HIGHLIGHTS OF SKILLS & QUALIFICATIONS

- Collaborative and innovative student with 3+ years of professional software development crafting frontend applications using technologies including Python, JavaScript and React
- Demonstrated proficient hands-on experience with applying appropriate ML/Deep Learning models to tackle a variety of tasks including supervised, unsupervised learning, and computer vision
- Strong ability to communicate design decisions and model capabilities to business teams and stakeholders through the use of data, visualizations and clear communication skills

SKILLS

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|-----------------------------------|--|
| Frontend & Frameworks | React, Next.js, TypeScript, JavaScript, Python, Tailwind CSS, Material UI, Storybook, Redux, Context API, React Testing Library, Jest, Cypress, Lazy Loading, Code Splitting, Caching, Image Compression, GSAP, Framer Motion |
| Backend & Database | Ruby on Rails, Node.js, Express.js, Alicloud ECS, GitHub Actions (CI/CD), Docker, AWS EC2, Database Querying and Design (SQL, PostgreSQL, sqlite3), RESTful API Design and Integration, Agile/Scrum development methodologies |
| Data Science | Exploratory Data Analysis (EDA), Time Series Analysis, Feature Engineering, Data Wrangling, SHAP, Jupyter Notebooks, Pandas |
| Machine Learning & AI | Linear Regression, Decision Trees, Random Forest, Support Vector Machines, Ensemble Learning, Logistical Regression, Multi-layer Perceptrons, Classification, K-fold Cross Validation, Grid Search, Random Search, Naive-Bayes, Clustering, Scikit-learn |
| Accessibility & Design | Figma (Design-to-code workflows), Responsive & Cross-Browser Design, UI/UX Best Practices, Accessibility Standards: WCAG 2.0, AODA, SEO Optimization, Google Core Web Vitals (CLS, LCP, FCP) |

EDUCATION

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| Master of Artificial Intelligence Design and Development (MAI), Seneca Polytechnic <i>Winter 2026 President's Honour List - GPA 4.0/4.0</i> | January 2026 — Present |
| Bachelor of Applied Science and Engineering, University of Toronto <i>Major in Electrical Engineering</i> <i>Minor in Sustainable Engineering</i> | Completed July 2020 |

PROJECTS

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|---|--|
| Catch <i>Personal Project</i> | March 2025 — Present <i>Toronto, Ontario</i> |
| <ul style="list-style-type: none">• Collaborating with a backend developer and UX designer over Slack and Figma to architect a novel Android/iOS mobile application for smart time coordination between friends, businesses and AI agents through the application of AI• Engineering the project's tech stack using React Native for the frontend, with a robust Express.js, PostgreSQL, Prisma, and Redis backend• Developed a secure authentication flow utilizing access/refresh tokens and integrated Twilio for OTP (One-Time Password) verification• Designing and implementing frontend features, including a system wide dark mode and responsive UI components based on Figma design reviews with UX designer• Spearheading the AI component of our project by conducting literature reviews of research papers, gaining insights from relevant industry partners, and applying knowledge from my courses to create a prototype AI model for risk scheduling | |

Canadian Labour Demand Forecasting

Seneca Polytechnic

January 2026 — April 2026

Toronto, Ontario

- Trained a time series forecasting model on **3 million data points** to predict labour demand in the Accommodation & Food Services sector over a 5 month horizon, utilizing multiple datasets from Statistics Canada and Canada Job Bank
- Developed and tuned a suite of 5 machine learning models including XGBoost, LightGBM, and Random Forest, against a SARIMAX baseline, with the **Random Forest model achieving high accuracy MAPE score of 4.72%** on the test set
- Synthesized key insights from Exploratory Data Analysis (EDA) into a visual presentation for policymakers, demonstrating a sector wide demand decline and providing strategic recommendations to prioritize employee retention over aggressive hiring

Twilio API Integration

Open Source - Ruby For Good (RFG)

March 2022 — August 2022

Toronto, Ontario

- Collaborated with 2 developers in different timezones to integrate Twilio API into CASA's volunteer management portal built on Ruby on Rails, enabling SMS notifications for over 1,000 staff members nationwide
- Enhanced user interface by designing a new text input field and manipulating PostgreSQL database structure to support new volunteer contact fields, ensuring smooth data handling and storage
- Developed a full-stack testing suite using RSpec and Cypress by implementing TDD principles across controller, model, and view components and collaborated via peer code reviews to integrate senior feedback, resulting in increased code coverage for critical workflows and a highly scalable codebase.

TECHNICAL EXPERIENCE

Frontend Developer

Polaron Solar Energy

April 2025 — December 2025

Toronto, Ontario

- Collaborated closely with UX designers and product managers to create a scalable design system, built with React + Tailwind CSS, documented and tested in Storybook, which improved developer workflow and design consistency
- Optimized web and mobile performance by implementing lazy loading, CDN caching, and dependency analysis, which **improved Core Web Vitals (CLS, LCP, FCP) by 50%**
- Refactored our CI/CD pipeline by setting up a staging environment on Alibaba Cloud ECS and building custom deployment scripts in GitHub Actions, **reducing deployment times by 40 minutes**

Application Developer

Ministry of Public and Business Service Delivery and Procurement

August 2023 — April 2025

Toronto, Ontario

- Designed and developed responsive, functional UIs using Figma, HTML, CSS, JavaScript, React, and Next.js contributing to the modernization of critical government portals (e.g., High Occupancy Toll Lane Application (HOT)) while ensuring compliance with AODA and WCAG 2.0 accessibility standards
- Architected the Ontario Design System (ODS) React component library using React + TypeScript + Tailwind CSS, which was **adopted by 4 cross-functional teams to streamline government application development**
- Spearheaded refactoring of our critical Canada Post module to leverage ODS components from the React component library through collaboration with consultants, business analysts and QA team to meet the digital modernization goal set by our ministry

Web Developer

SilverPonies Web Inc.

July 2022 — September 2023

Vancouver, British Columbia

- Led performance optimization initiatives for high revenue Shopify and WordPress clients, resulting in a **20% increase in page performance through Core Web Vitals analysis**
- Delivered a comprehensive homepage redesign as Lead Developer, which doubled loading speeds and directly contributed to improved customer retention
- Developed a suite of reusable UI features and WordPress plugins with PHP that enhanced user engagement and streamlined the user experience for multi-million dollar client accounts

ACTIVITIES

Scientist Farzand Husain Education and Welfare Foundation Canada (SFHEW), Robotics Instructor

2025 — Present