

Ivan Shklyaruk

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EDUCATION

University of Waterloo — Bachelor of Mathematics Honours, Statistics, Computing Minor **June 2026**

Relevant Coursework: Forecasting; Data Visualization; Generalized Linear Models; Simulation Methods

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C, C++, C#, PHP, TypeScript, JavaScript

Developer Tools: Pandas, NumPy, scikit-learn, Spark, dbt, Power BI, Tableau, Git, Linux

EXPERIENCE

Premium Auto Service — Business Analyst Co-op **Sep - Dec 2024**

- Consolidated service records, technician job logs, and QuickBooks invoice exports into a **SQL** database, replacing manual spreadsheet assembly and freeing **2+ hours per week** for operational decision-making.
- Designed **Tableau** dashboards using **SQL** to track parts usage, backorders, and repair frequency, enabling data-driven purchasing decisions that reduced excess inventory costs by approximately **\$9,000 per month**.
- Optimized job sequencing using **A/B tests** to evaluate technician workload allocation, identifying more efficient repair order distribution and reducing average customer wait times by **16%**.
- Documented reporting logic, KPI definitions, and reporting processes for **Tableau** dashboards and **SQL** workflows, standardizing weekly reporting and reducing reconciliation errors in Excel-based reports.

Government of Canada — Data Analyst Co-op **Jan - Apr 2023**

- Built a web-based data ingestion platform using **Python**, **Django**, and **SQL**, enabling researchers to automatically organize raw environmental data into a centralized **SQL** database while reducing processing time by **50%**.
- Migrated 20+ years of research records into GitLab using **Python** with automated validation checks to ensure data integrity and reproducibility, saving **500+ hours** of manual archival work.
- Analyzed air quality datasets using **SQL** and **Python** (**Pandas**, **NumPy**, **scikit-learn**) to develop anomaly detection and forecasting models, enabling environmental assessments and long-term planning over the next **5+ years**.

Adaptive Pulse — Full Stack Developer Co-op **May - Aug 2022**

- Designed and implemented scalable data pipelines using **Python**, **Spark**, and **SQL** to consolidate customer data from multiple sources, reducing data processing time by **40%**.
- Developed automated data quality testing and monitoring workflows using **Python** to validate data integrity across analytics pipelines, eliminating manual validation and saving **100+ hours** of testing effort.
- Built interactive dashboards using **React**, **TypeScript**, and **Node.js** to visualize key performance metrics through real-time backend APIs, enabling stakeholders across business functions to monitor and act on live data insights.

OlaTech — Web Developer Co-op **Sep - Dec 2021**

- Revamped the company website using **JavaScript**, **Node.js**, and **GraphQL**, implementing a single-page architecture with responsive design to improve performance and user experience across desktop and mobile devices.
- Optimized **GraphQL** query performance and backend data handling using **Node.js** to streamline customer account management workflows, reducing page load times and improving platform reliability.

PROJECTS

ivanshklyaruk.com (<https://ivanshklyaruk.com>)

- Designed and developed a personal portfolio website from scratch using **TypeScript** and **React** to present professional experience, technical projects, and personal interests in a clean, modern interface.

Pineapple Jump (sirdevknight.itch.io/pineapple-jump)

- Developed and released a 2D arcade game using **Unity (C#)**, designing game architecture, physics systems, and state-based gameplay logic to deliver a fully playable public build.