

# Joe Yousseuf

Windsor, Ontario, Canada

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## Technical Skills

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**Programming Languages:** Python, SQL, Go, Bash, HTML/CSS, MATLAB & Simulink

**Data Science Frameworks/Packages:** Pandas, Scikit-learn, NumPy, Matplotlib, Django/DRF, Flask

**Data Engineering/MLOps Tools:** Dataflow, PostgreSQL, Dagster, Airflow, dbt, MLFlow, DigitalOcean, Iceberg, Clickhouse, Timescale, LLMs (Anthropic, OpenAI, Google, etc.), Model Context Protocol (MCP)

**Dev Environments and Tools:** Jupyter (Classic and Lab), VS Code, Google Cloud Services

**Other:** Tableau, Git, GitHub, MacOS, Linux (Ubuntu, WSL2), Arduino/RPi, uv

## Industry Experience

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### Oden Technologies

New York, NY

*Data Scientist II*

*Oct. 2024 - Present*

**Company Objective:** Combine years of complex, high-frequency manufacturing time-series data and AI-driven analytics to deliver real-time, human-in-the-loop process recommendations and predictive insights, empowering frontline operators to dramatically reduce variability, boost efficiency, and optimize production in manufacturing facilities worldwide

- **ProcessAI:** Delivered real-time control system recommendations to operators and process engineers on the factory floor. Maintained customer relationships at a data science services level and expanded modeling logic across many global manufacturing enterprises.
- **Predictive Quality:** Developed Gradient Boosted Regression and Linear models to predict in-line sensor data and staggered quality tests, enabling real-time optimization feedback surfaced through ProcessAI.
- **Oden Copilot:** Co-developed Model Context Protocol (MCP) tools for a unified in-house LLM platform that translates natural and domain-specific language into historical and real-time analyses across customers.
- Recognized for raising internal standards in communication, project deliverables, and transparency—positively impacting both technical and cultural outcomes.

## Preteckt

*Data Scientist, Product*

**Hamilton, ON**

*Sept. 2020 - Oct. 2024*

**Company Objective:** Leverage years of time series vehicle data and machine learning models to deliver *human-in-the-loop* predictive maintenance alerts and repair plans for thousands of heavy-duty vehicles across North America

- Successfully and independently managed external relationships, performing consulting data science advising and analysis for larger partner companies, setting and meeting contracted project milestones along the way
- Independently designed and built multiple data ingest pipelines using Dagster to capture raw daily API data, perform transformations, and load into Apache Iceberg
- Developed a systematic exploratory data analysis (EDA) internal standard report for newer data scientists on our team, and personally performed thorough analyses for many disparate data sources using Pandas and SQL
- Contributed to preprocessing, training and deployment methods for our clustering and signal anomaly detection production models
- Proud to have mentored 3 co-op students and 2 entry-level data analysts and scientists as well as refactoring and maintaining our official data science onboarding and internal tooling repository

## Gordie Howe International Bridge Windsor, Ontario

*Data Scientist Intern, Analytics*

**Windsor, ON**

*Jan. 2020 - Sept. 2020*

- Conducted a study on Population Density and Local Urban Growth, revealing a major bridge design flaw and averting over \$200,000 in construction costs
- Designed clear and captivating data visualizations for both internal and external stakeholders

## ENWIN Utilities

*Data Scientist Intern, Analytics*

**Windsor, ON**

*Jan. 2019 - Sep. 2019*

- Designed ARIMA forecasting models for SMART power grid optimization, saving up to 8% of excessive total power waste during off hours
- Developed a monthly power metric dashboard using Grafana, regularly showcased to provincial government and used to make critical business decisions

## Education

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### University of Windsor

*BASc, Honours Electrical and Computer Engineering*

**Windsor, ON**

- Dean's Honour Roll, Minor in Mathematics and Statistics

## Extra-Curricular Experience

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### WinSAT - Space & Aeronautics Team

**Windsor, ON**

*University of Windsor*

*Sept 2018 - Feb 2020*

- Competed in the [Canadian Satellite Design Challenge \(CSDC\)](#) against 15+ top Canadian university teams to build a 3U Cube Satellite for Low Earth Orbit with the capability of transmitting photos of the Earth for a year-long mission
- Elected as leader for the Electrical Power Systems (EPS) and for the Command & Data Handling subsystem teams as a result of my dedication to the team and strong communication skills
- Led our division to complete a series of solar panel designs, flight simulations, and oscilloscope testing documents with respect to the project Gantt Chart deadlines
- [WinSAT achieved 1st place in the CSDC-5 Critical Design Review \(CDR\)!](#)

### University of Windsor's EPICentre Makerspace

**Windsor, ON**

*University of Windsor*

*Aug 2018 - Mar 2021*

- Designed, programmed, and assembled a 3D printed and laser-cut computer numerical control (CNC) machine with a small group of engineering students.
- Wrote an Arduino module and Mach3, a CNC controller software, to control independent x, y, and z motors in order to move a robotic drilling arm to specific locations
- Presented our finished product at the 2019 Windsor-Essex Mini Maker Faire along with over 30 other local entrepreneurs, inventors, and creators

## Other Work Experience

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### Tim Hortons

**Windsor, ON**

*Assistant Manager*

*Mar 2016 - Aug 2021*

- Promoted to a supervisor and assistant manager position within 3 months and 1.5 years respectively as a result of my committed and consistent professional work ethic and initiative
- Managed a diverse team of employees to accomplish top-of-the-line customer service in a fast-paced and challenging environment
- Presented bold and fresh ideas to local franchisees and owners with respect to work-flow management and team member efficiency that resulted in improved productivity and implementation across all local locations
- Organized and led multiple successful community-based fundraising and charity events such as our annual "Riverside Night Run for Mental Health Support" and "Tim Hortons Camp Day"

## Awards and Conference Recognition

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CUTA Conference Young Leaders Summit 2023

*Selected as a delegate among hundreds of applicants to represent and pitch Preteckt among new and experienced Transit Leaders across North America*

Google Developers Group Young Leader 2022 - 2024

*Presented yearly to a crowd of 50-100 local developers and students about building a data-driven startup company as well as presenting a demo on taking raw data and transforming it into a clustering model*

Professional Engineers of Ontario Foundation for Education Scholarship 2021

*Awarded to engineering students who have demonstrated an equal combination of high academic achievement and leadership through participation in professional affairs and extra-curricular activities*

Windsor-Essex Chapter - Professional Engineers of Ontario Bursary 2020

*Awarded to engineering students who have demonstrated exceptional academic achievement*

Tim Hortons Young Excellence Scholarship 2017 - 2019

*Awarded to exceptional students across Canada who have exceeded expectations in their academic studies and who have actively contributed to improving their community through Tim Hortons volunteer events*

Electrozad Foundation Scholarship 2018

*Awarded to electrical engineering students in their second year who have achieved a minimum cumulative average grade of 95%*

Dean's Renewable Entrance Scholarship 2017 - 2021

*Awarded and renewed every term to students who maintain a cumulative average of 90% or greater in their coursework. A grade of 75% or lower in any single course would cancel the renewal of this award.*

JANLA Scholarship Award 2017

*Awarded to a graduating student who has achieved a minimum cumulative average grade of 85% and who has demonstrated passion for their chosen post-secondary field of study through extra-curricular activities*

## Relevant Coursework and Professional Development

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### *Independent Coursework:*

- [Machine Learning Specialization \(Andrew Ng\)](#)
- [Forecasting Principles and Practice](#)
- [Ubuntu CLI](#)
- [Django and DRF Tutorial](#)
- [StatQuest's Machine Learning Playlist](#)
- [Designing Data Intensive Applications](#)
- [SQLBolt](#)
- [Makefile Tutorial](#)
- [Flask Interactive Tutorial](#)
- [Hugging Face MCP Course](#)

### *Personal Conference Attendance:*

- [MLOps Agents in Production 2025](#)
- [Open Data Science Conference 2023](#)
- [Emerging Tech in Automation 2022](#)
- [GDG Windsor-Essex 2022, 2023, 2024](#)
- [KDD 2022](#)
- [PyData 2020 and 2021 \(Virtually\)](#)

### *University of Windsor:*

- [MATH-126] Linear Algebra (96%)
- [MATH-140] Differential Calculus (94%)
- [MATH-141] Integral Calculus (92%)
- [MATH-215] Vector Calculus (92%)
- [MATH-216] Differential Equations (95%)
- [GE-85-225] Statistical Treatment of Experimental Data (92%)
- [STAT-2920] Probability and Statistical Inference (97%)
- [ELEC-2240] Signals and Systems (94%)
- [ELEC-2280] EM Fields - Physics IV (99%)
- [ELEC-2280] EM Waves - Physics V (98%)
- [COMP-2540] Data Structs & Algorithms (98%)
- [GENG-3130] Eng Economics (98%)
- [ELEC-4570] Digital Signal Processing (85%)
- [ELEC-4490] Sensor & Vision Systems (89%)