

Eddie Gao

Ottawa, Canada | github.com/egao8 | linkedin.com/in/eddiegao1 | eddiegao8@gmail.com | eddiegao.dev

EDUCATION

B.S Computer Science Honours | *Carleton University*

Expected May. 2028

- GPA: 3.8/4.0 | Awarded \$160,000 via Shopify Dev Degree
- Relevant Coursework: *Data Structure, Databases, Systems Design, Statistics & Machine Learning*

EXPERIENCE

Georgia Institute of Technology | *Undergraduate Researcher*

Oct. 2026 – Present

Shopify | *Applied AI Engineering Intern*

Apr. 2025 – Present

- Built and deployed Shopify's AI Feedback command for MCP and Skills, enabling **25,000+** developers to capture agent feedback directly from context windows while reducing token costs **13%** across **400–600K** weekly tool calls.
- Developed AI evals through a **LLM-judge** that measures agent success rate with over **300,000** agentic prompts from merchants, improving pass rates from **21%** to **65%** across developer domains like Liquid and Storefronts.
- Introduced Service-Account Tokens into the Shopify CLI for **14,000+** merchants to deploy AI agents that can create stores, initialize apps, and develop storewide workflows autonomously without manual rotation or capability expiry.

Shopify | *Software Engineering Intern*

Aug. 2024 – Apr. 2025

- Launched the first feature rollout of unverified return flows on POS in <4 weeks with Ruby on Rails, integrated into Shopify's payments platform for **220,000+** merchants across Shop Pay devices and online retail stores.
- Built duplicate-refund protection for shipping lines on the Checkout One engine, diagnosing over **690** validation errors.
- Cut database loads on order edits by eliminating N+1 queries in bulk search layers, improving internal latency by **8%**.

Nokia | *Software Engineering Intern*

Jul. 2023 – Aug. 2023

- Developed a drone-based computer vision pipeline for autonomous cargo classification using **AprilTag** recognition, achieving **95%** shipment classification accuracy at Bell Labs for Graybar organization warehouses across the U.S.
- Built **Pandas/Matplotlib** data-processing and visualization pipelines to analyze imagery and flight data across **4,000+** cargo bins, streamlining quality-control analysis and identifying anomalies across warehouse trials.
- Streamlined JSON-based flight-data filters to identify previously uncaught errors, increasing yield certainty **43%**.

CarletonU | *Machine Learning Researcher*

Jun. 2022 – Aug. 2022

- Built a large-scale recommendation system over **15.5M** Amazon reviews using **Python** and **Apache Spark**, applying genre-based matching to achieve **0.70 Precision@10** across product categories and multimedia platforms.
- Replicated an **EPFL X-MAP** recommender architecture and optimized distributed Spark processing, scaling the recommendation pipeline to support datasets **5.6×** larger than the original implementation to date.

PROJECTS

Practical Wisdom (practical-wisdom.org) | *Founder*

Sep. 2025 – Present

- Built and scaled live **XGBoost** trading models for equities, trained on **16+** years of market data with **90+** engineered features spanning order flow, volatility, and market regime signalling, achieving a live **2.1 Sharpe** (12mo).
- Designed walk-forward validation with embargoed splits and execution-aware backtesting to evaluate model performance under realistic trading costs and auctioning behaviour with **99.7%** executional parity to live fills.
- Deployed models through an AWS inference pipeline with automated data validation, feature generation, prediction logging, and execution monitoring, processing **~1M** observations/day on a cloud 2-vCPU instance.

SKILLS

Languages: Python, C++, C, Ruby, Java, Javascript, Typescript, SQL

Frameworks & Libraries: Ruby on Rails, React, React Native, Next.js, Node.js, GraphQL, PyTorch, scikit-learn, LightGBM, XGBoost, Pandas, NumPy, Apache Spark, Matplotlib

Tools & Infrastructure: PostgreSQL, SQLite, Firebase, Docker, Kubernetes