

Howard (YingHe) Zhu

✉ zhux2470@mylaurier.ca | ☎ 416-705-3940 | 🌐 little-dao.github.io | in yinghe-zhu | 📄 little-dao

Skills

Languages: C++, C, Python, SQL, Bash, JavaScript, R, VBA, Assembly, Kotlin, HTML/CSS

Finance & Analytics: Financial Modeling, Total Portfolio Management, Fund Analysis, Risk Assessment, Macroeconomic Research, Data Governance

Frameworks/Libraries: React.js, Flask, TensorFlow, PyTorch, Scikit-learn, Langchain, Pandas, NumPy, Android SDK, Stellar SDK, Beautiful Soup

Tools: Git, Azure, Power BI, Tableau, Power Automate, Bloomberg Terminal, Morningstar Direct, SAS, PitchBook, Excel

Experience

External Fund Management · *Equitable Life of Canada* · Toronto, ON Jan 2025 – Apr 2025

- Supported AVP in managing external mandates through fund screening, performance evaluation, and preparation of investment committee materials
- Developed a Python-based (OOP) pipeline integrating Morningstar APIs for performance extraction and validation, visualized using Power BI to enhance reporting turnaround by 60%

Undergraduate Research Assistant · *University of Waterloo & Wilfrid Laurier University* · Waterloo, ON May 2023 – Present

- Launched a full-stack SEC filings portal using React, Flask, and MySQL with MVC architecture; provided customizable document querying across filings, saving the institution over \$10K annually
- Led development of a Non-GAAP disclosure mining pipeline, extracting measurement narratives and structuring sentiment-label datasets across 10-K/Q filings

Business System Analyst · *Canadian Imperial Bank of Commerce* · Toronto, ON Sept 2022 – Dec 2022

- Designed and deployed an OSFI-compliant automation system using Power Automate for data governance workflows; adopted by over 120+ data domains to streamline reporting and record escalation

Account Executive · *ShiZhuang Fertilizer Corporation* · Panjin, China Jan 2022 – Apr 2022

- Built a Python scraping framework identifying high-value procurement contacts, expanding qualified leads by 35%
- Conducted commodity-market research to inform APAC sales strategy and pricing negotiations

Projects

Algorithmic Trading Using Machine Learning

- Created a modular Random Forest trading engine with PCA-based feature reduction; connected to Interactive Brokers API for real-time simulation and automated CI backtesting

Quantify 📄

- Developed a no-code quant strategy platform (Flask, React, SQLAlchemy) with WebSocket-driven backtest simulations; enabled non-technical users to validate trading strategies without Bloomberg access

Stellar Smart-Tax Wallet 📄

- Built an on-chain wallet using Stellar SDK with Passkey-based authentication; automatically logs tax implications

Awards & Certifications

- **CIBC Exceptional Student Award** – Honored for high-impact automation work delivered during co-op placement
- **Bloomberg Market Concepts** – Certified in fixed income, equity, and macroeconomic markets
- **UWaterloo DSC Datathon MathSoc Winner** – Winner of DNA sequence prediction for Cytelia using Randomforest

Education

Wilfrid Laurier University · BBA in Accounting · GPA 3.7/4.0

Sept 2021 – Apr 2026

University of Waterloo · BCS in Computer Science · GPA 3.7/4.0

Sept 2021 – Apr 2026