# Justin Kim

j14kim@outlook.com | LinkedIn | Website | +1 (647)-972-6342

#### WORK EXPERIENCE

Guelph, ON Co-operators

Portfolio Analytics & Insights Analyst

Jan 2025 - Present

- Built and maintained the Future of Portfolio Monitoring dashboard in Power BI using advanced DAX calculations to track merging trends for in-force business, quotes, premium, claims CY and AY, enabling proactive portfolio steering and executive level insights
- Developed Automated Investigation Shiny App for rate review monitoring, building GLM models for Non-Renewal, Quotes, and Premium Realization, improving accuracy and data accessibility while increasing process efficiency
- Deployed an LLM-powered reporting pipeline to interpret KPIs and visuals for Non-Renewal Reports, dynamically generating commentaries and summaries, reducing manual reporting time by 40% and enhancing insight consistency for monthly reporting
- Applied causal analysis on 5M+ auto, home and commercial risks using Python (Pandas, NumPy, scikit-learn), for various analyses
- Automated month-end data pipelines for claims and in-force data using SOL and Airflow, improving ops efficiency by 25%
- Supported external insurance emissions reporting aligned with OSFI's initiatives, leveraging SQL to extract, clean and summarize risk and coverage level data for carbon footprint estimation and regulatory submission
- Streamlined agile workflows by implementing JIRA automations for sprint triggers and status syncing and maintained centralized documentation in Confluence to enhance cross-team visibility and reduce onboarding time

**Ontario Hose Specialties** Mississauga, ON

Data Scientist

Sep 2024 – Dec 2024

- Revamped ETL workflows as part of a company-wide ERP migration using PySpark pipelines to process and join large-scale legacy production and inventory datasets, reducing end-to-end runtime by 60% by optimizing partition strategies
- Produced sales forecasts by applying ARIMA to five years of historical data, enabling more effective inventory and demand planning
- Developed interactive dashboards in Power BI to visualize key sales, inventory, and production metrics to monitor real-time data

**Ernst & Young** Toronto, ON

Staff Accountant II & Staff Accountant I

Jan 2022 - May 2023

- Automated an income distribution model for 20+ key clients using Power Query and VBA, streamlining large-scale financial calculations and reducing reporting time by 60% across multiple teams
- Visited 10+ FSO client sites to conduct process walkthroughs, reconciliations, and preparing working papers to support audit process
- Generated 100+ tailored financial summaries for Non-Resident clients using Excel, providing compensation breakdowns, multijurisdictional calculations, and comprehensive foreign tax credit analyses for filings
- Prepared and reviewed 1,400+ personal tax returns for Canadian and U.S clients, ensuring compliance with tax regulations and timely submission for Residents, cross-border and Non-Resident clients
- Assisted audit teams by identifying key control risks and supporting evidence gathering for year-end financial statement audits

**Statistics Canada** Toronto, ON

Data Analyst

*Apr* 2021 – *Jul* 2021

- Coordinated the end-to-end data collection and processing of 50,000+ household responses for the 2021 Canadian national census
- Developed Tableau dashboards to monitor real-time census response rates and demographic coverage, enabling weekly reporting
- Strategized with various teams to design survey instruments and optimize data collection procedures, improving response rates

# PERSONAL PROJECTS

### SAP - Sustainability & Multidimensional Poverty Index

Feb 2025 – Mar 2025

Placed 2<sup>nd</sup> by developing Multidimensional Poverty Index with differential weighting for 250+ countries with 87% accuracy by applying both unsupervised ML techniques (K-Means, PCA) and supervised models (Random Forest, Naïve Bayes)

### EY - Predicting the Impact and Severity of Wildfires

Feb 2024 - Mar 2024

Placed Top 4 of 50+ teams by building deep learning models (LSTM, U-Net) to accurately predict the onset and progression of wildfires, integrating high-resolution spatial-temporal datasets to enhance predictive capabilities, achieving an F1-score of 0.72

# **EDUCATION**

Waterloo, ON **University of Waterloo** Graduation Date: 2025

Bachelor of Mathematics – Mathematics + Statistics + Business Administration Major

Relevant Courses: Computational Statistics & Data Analysis, Databases, Deterministic Operations Research Models, Experimental Design, Forecasting, Investment Sci & Corporate Fin, Management Information System, Stochastic Simulation

### SKILLS & INTERESTS

Python | R | SQL | TensorFlow | VBA | Power Query | Flask | HTML | JavaScript | Excel | MATLAB | Power BI | Tableau Technical Skills:

Exam MAS-I - CAS | Exam P - SOA | Exam FM - SOA | Azure AI Fundamentals - MS | Azure Fundamentals - MS Certifications:

Interests: Financial Services | Data Science | Machine Learning | Quantitative Analysis | Strategy | Fitness | Electric Veh | Traveling