

# Ryan Pan

• Address: 38 Yates Ave, Vaughan L6A4X3 • (416) 732-8829 • [ryanpan0929@gmail.com](mailto:ryanpan0929@gmail.com) • [linkedin:Ryan-Pan](https://www.linkedin.com/in/Ryan-Pan)

## HIGHLIGHTS

- Master of Economics with Specialization in Data Science, Certified FRM, CFA II Candidate, 5 years experience in data industry
- Technical skills: SQL, Python, R, Matlab, SAS, MS Excel (VBA), Access database, data visualization tools: Tableau, Power BI
- Strong understanding of financial markets and investment products, including equities, fixed income and derivatives
- Experienced in End-to-End big data processing pipeline, Hadoop-based tools, and Cloud computing services

## PROFESSIONAL EXPERIENCE

**Senior Data Analyst (Data Migration Project)**, Reliance Home Comfort, Toronto, ON **August 2021 – May 2022**

- Led the data migration effort for the business transformation project, resulting in a successful and timely migration of data from legacy billing system to SAP system, conducting data mapping and quality assessment to improve data accuracy and completeness
- Partnered with external consulting team to identify key areas for changes, developed and executed data archiving and migration strategy
- Coordinated with cross-sectional teams to ensure timely delivery of projects and resolution of data issues by using Agile methodology on Azure DevOps

**Data Analyst (Customer Information System)**, Reliance Home Comfort, Toronto, ON **December 2019 – August 2021**

- Implemented various projects like annual price increase, paperless billing conversion, acquisitions, etc., that continuously generate company revenue and reduce operational costs, resulting company's revenue increase over \$3M per year
- Understand complex data networks and navigate through large data regarding 1.9M customers to drive cross-selling opportunities and business decisions through insightful data-driven analysis of customer behavior
- Produced ad hoc, weekly and monthly reports to track workforce KPIs through Python, SQL and Power BI
- Improved customer experience by redesigning letters and bills on vendor solution systems, also ensure timely customer communication through automated process with complex and high efficient SQL queries
- Conducted meticulous UAT and data validations to locate bugs and defects for the new products launch

**Business Intelligence Analyst**, Altas Strength Inc, Toronto, ON **July 2018 – December 2019**

- Cooperated with business team to summarize sufficient source datasets and performance indicators for marketing strategies
- Processed data migration and integration from various data sources to OLAP data warehouse by using ETL tool (Talend)
- Modelled data warehouse (Redshift) to form a star-schema which optimized process analysis by reduced 70% querying time
- Designed campaign dashboard (Tableau) and administrated Tableau server to ensure data security and services stability

## EDUCATION

**Master of Economics, Specialization in Data Science**, Carleton University, Ottawa, ON **August 2017 – May 2018**

- **Awards:** Carleton University Graduate Scholarship

**Bachelor of Arts in Mathematics, Statistics & Economics**, Acadia University, Halifax, NS **August 2014 – April 2017**

## PROJECTS

**Stock Research** **2022 - 2023**

- Synthesized fundamental and technical research on more than 100 companies to create suitable investment universe and analyzed the financial opportunities
- Identified and assessed relevant metrics of key return drivers by building algorithmic trading strategies by using Python, and measured the performance through backtesting on a periodic basis

**Lending Club Loan Analysis**, Carleton University **2018**

- Trained couple Machine Learning models in Python that could predict the quality of loans with more than 200,000 issued by Lending club, include Decision Tree model, K-NN model and Logistic regression

**Volatility Forecasting of The Return of Shanghai Stock Exchange Composite Index**, Carleton University **2018**

- Applied time series analysis skills using Matlab, built financial time series volatility model: ARIMA, GARCH, etc
- Obtained extensive experience on modeling financial asset return and volatility

## ACTIVITIES

- **Graduate Teaching Assistant:** Introduction to Macroeconomics, Introductory Statistics for Economics
- **The Governor's Challenge Competition:** Designed and implemented Econometrics model on panel data, performed statistical analysis including linear regression, logistic regression and GLM using R on the topic of Income Inequality & Relationship with Household Debt