Nicholas Tam

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EDUCATION

University of British Columbia — Vancouver, Canada

Major: B.Sc. Mathematics, **Minor:** Data Science, **GPA:** 3.315/4.3, **GRE:** 158V, 165Q — Sep 2021 - Apr 2025

Relevant coursework: Calculus III and IV, Mathematical Proof, Matrix Algebra, Differential Equations I, Applied Linear Algebra, Linear Programming, Models of Computation, Software Construction, Statistics for Applications, Statistical Inference for Data Science, Statistical Modelling for Data Science, Applied Machine Learning, Data Relationships

PROFESSIONAL EXPERIENCE

Sharp Point Limited - SAAS firm providing a trading platform for multi-exchange cash and derivatives — **Hong Kong, China**

Frontend Engineer — Jul 2023 - Aug 2023

- Enhanced platform APIs for password and product search, improving user accessibility and performance
- Collaborated with designers to revamp the mobile app UI using Flutter, successfully meeting 2-week deadline
- Utilised Riverpod to restructure key features, including the search bar, product reader, and user settings functions

Software Developer — Jun 2022 - Jul 2022

- Employed PyAlgoTrade and jQuery libraries for advanced algorithmic trading and web development
- Led rigorous testing of 5 major API functions, utilising historical and real-time market data.
- Worked on back-testing Python-based algorithmic trading strategies using company servers
- Designed framework for broker and API handler to facilitate seamless order creation, utilisation, and modification

Luk Fook Financial Services Limited - brokerage house — **Hong Kong, China**

Equity Research Summer Analyst — Jul 2020

- Conducted due diligence on Cryptocurrencies, including cost-benefit analysis & potential economic implications
- Performed qualitative research on the technology sector to identify high-potential growth stocks in the industry

TECHNICAL PROJECTS

Quantium Data Analytics Job Simulation — **Forage, Online**

Simulation on Data Analytics and Commercial Insights for the data science team — May 2025

- Utilized transaction datasets to extract valuable insights and deliver data-driven commercial recommendations
- Identified benchmark stores for conducting uplift testing on trial store layouts

Statistical Modelling of Diabetes Risk Report and Workflow — **Vancouver, Canada**

Logistic regression prediction model of diabetes risk based on BRFSS health indicators — Feb 2025 - Apr 2025

- Employed R function packaging to robustly generate and analyse prediction models through classification metrics
- Utilised GNU Make and Docker with Quarto to create reproducible and trustworthy project workflows

Statistical Inference and Modelling of Breast Invasive Ductal Carcinoma Treatments — **Vancouver, Canada**

Statistical significance of cancer treatments on patients' survival period in models — Oct 2024 - Dec 2024

- Modelled boxplots, scatterplots, histograms, and VIF of covariates to perform exploratory data analysis
- Employed R to compare the statistical significance of treatments within stepwise selected models

SKILLS & INTERESTS

Programming: R (Quarto), Python (Altair), Jupyter, GitHub, Flutter, HTML, CSS, SQL, Prompt Engineering

Data Analysis: Bootstrap sampling, central limit theorem, two-sample t-test for mean differences, two-sample F-test for differences in standard deviation, linear regression, data visualisation, hypothesis testing, reproducible workflows

Languages: English (Fluent), Cantonese (Proficient), Mandarin (Proficient)