

# Theo Obadiah Teguh

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## EDUCATION

### UNIVERSITY OF HONG KONG

Bachelor of Economics and Finance, 2nd Major in Computer Science

September 2021 - May 2025

Hong Kong

- **Cumulative Grade Point Average (CGPA):** 3.64/4.30
- **Awards:** Dean's Honours List (2021-2023), HKU Undergraduate Entrance Scholarship for Outstanding Academic Talents (2022-2024), HKU Foundation Entrance Scholarship (2021-2022).
- **Relevant Coursework:** Causal Inference, Data Science, Data Structures and Algorithms, Derivatives, Portfolio Analysis.

### UNIVERSITY OF BRITISH COLUMBIA

Bachelor of Commerce, Exchange Semester

January 2024 - April 2024

Vancouver, Canada

- **Awards:** Chan Tat Chee Memorial Education Abroad Scholarship (2023-2024).
- **Relevant Coursework:** Econometrics, Linear Algebra, Operating Systems, Relational Databases, Game Theory.

## WORK EXPERIENCE

### UBC VANCOUVER SCHOOL OF ECONOMICS

Research Programming Assistant

March 2024 - April 2024

Vancouver, Canada

- Automated CI/CD with **Bash**, ensuring 100% synchronisation of project dependencies across multiple repositories during the build phase and minimising the risk of developer error. ([View the Website](#))
- Managing and cleaning GitLab repositories in a project of 38 contributors.

### HKU DEPARTMENT OF COMPUTER SCIENCE

Programming Teaching Assistant

August 2023 - December 2023

Hong Kong

- Lead a semester-long study group and co-led two tutorial lectures consisting over 30 students.
- Supervised an exam of over 350 participants and assisted the teaching team in responding to student forums.
- Teaching topics include **Python** fundamentals such as functions, data structures, recursions, and file I/O.

### HKU BUSINESS SCHOOL

Research Assistant

June 2023 - September 2023

Hong Kong

- Designed a fully automated **ETL data pipeline**, transforming a **Morningstar XML** data package with **Bash**, **Pandas**, and **SAX ElementTree** obtaining a 95% speed improvement, reaching top speeds of 13 MBps. ([View on GitHub](#))
- Administered an **AWS RDS MySQL** instance to store the 35 GB processed data set.
- Examined and visualised time series data of US treasury rates with **R Tidyverse**.

## PROJECTS

### Carhalla Parking Management System

([View Website](#)) ([View GitHub](#))

- A full stack web application, deployed and hosted on AWS Cloud to organise large scale networks of car parks.
- **Tools:** AWS RDS, AWS EC2, AWS Route 53, SQL, Bash Scripting, Database Design, ER Modelling

### CousCous: A Causal Inference Cookbook

([View Website](#)) ([View GitHub](#))

- A web-based textbook on applied econometrics, statistical, and causal inference methods.
- **Tools:** R Markdown, R Bookdown, R Tidyverse, LaTeX

### Stock Price Forecasting Model

([View on GitHub](#))

- A time series forecasting model based on some technical indicators, price volatility, and risk premium.
- **Tools:** Pandas, NumPy, scikit-learn, XGBoost, GridSearchCV, TimeSeriesSplit, Jupyter Notebook

## COMMUNITY SERVICE

- **Student Associate, Bridges International** (August 2021 - Present) – Coordinated networking and community outreach events, co-led a Christmas event for 25 people with a Hong Kong NGO for South Asian children.
- **Director of Finance, BantuYuk! Foundation** (July 2022 - February 2023) – Supervised a fundraising of 1,350 HKD and managed the supply of equipment to medical facilities in rural parts of Java Island.

## SKILLS AND LANGUAGES

- **Programming and Dev Tools** : Python, R, C, C++, Bash, Git, Valgrind, GDB
- **Cloud Computing** : Amazon Web Services (RDS, S3, EC2, Route 53, CloudFront)
- **Data Engineering** : Pandas, NumPy, ElementTree, Tidyverse, SQL, Bloomberg Terminal
- **Miscellaneous** : Microsoft Office (Word, Excel, PowerPoint), Notion, LaTeX
- **Language Proficiency** : Bahasa Indonesia (Native), English (Native), Mandarin (Elementary)