Theo Obadiah Teguh

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EDUCATION

UNIVERSITY OF HONG KONG   September 2021 - May 2025
Bachelor of Economics and Finance, 2nd Major in Computer Science   *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 and Engineering, Data Structures and Algorithms, Derivatives, Investments and Portfolio Analysis.

UNIVERSITY OF BRITISH COLUMBIA   January 2024 - April 2024
Bachelor of Commerce, Exchange Semester   *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   March 2024 - April 2024
Research Programming Assistant   *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   August 2023 - December 2023
Programming Teaching Assistant   *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   June 2023 - September 2023
Research Assistant   *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

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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, AWS (RDS, EC2, Route 53)
- **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)