

Theo Obadiah Teguh

theo.obadiah@gmail.com | [Website](#) | [GitHub](#) | [LinkedIn](#) | +852 6595 4989

EDUCATION

University of Hong Kong <i>Master of Statistics (Incoming)</i>	Sep 2025 - Jul 2026 Hong Kong SAR
<ul style="list-style-type: none">• Academic Awards: Belt and Road Scholarship in Statistics and Data Science (Full Tuition, 2025-2026)	
University of Hong Kong <i>Bachelor of Economics and Finance, 2nd Major in Computer Science</i>	Sep 2021 - May 2025 Hong Kong SAR
<ul style="list-style-type: none">• CGPA: 3.65/4.30 (First Class Honours)• Academic Awards: Dean's Honours List (2021-2024), HKU Entrance Scholarship (Full Tuition, 2021-2025), Chan Tat Chee Memorial Education Abroad Scholarship (2023-2024)• Coursework: Software Engineering, Data Structures & Algorithms, Relational Databases, Computer Hardware & Operating Systems, Computer Networks, Object-Oriented Programming, Functional Programming, Mathematical Finance, Advanced Econometrics, Statistical Learning, Artificial Intelligence, Linear Algebra	

PROFESSIONAL EXPERIENCE

Machine Learning Researcher (Incoming) <i>Shanghai Jiao Tong University</i>	Jul 2025 - Aug 2025 Shanghai, PRC
Data Scientist <i>Oxbridge Economics, LLC</i>	Jul 2024 - Dec 2024 Hong Kong SAR
<ul style="list-style-type: none">• Designed and implemented a stratified sampling algorithm with scikit-learn, Pandas, and NumPy based on a 56 GB data warehouse, decreasing error by 59% relative to prior benchmarks. (more details)• Conducted feature selection of predictive covariates for gradient-boosted trees (XGBoost) models, and conducted cross-validation and Bayesian hyperparameter tuning.• Spearheaded research on optimization of the sampling algorithm with tools such as the simulated annealing Monte Carlo method and cross-entropy or Kullback-Leibler divergence.	
DevOps Engineer <i>Vancouver School of Economics, UBC</i>	Mar 2024 - Apr 2024 Vancouver, Canada
<ul style="list-style-type: none">• Reduced software deployment time by 50% via recursive synchronization of dependencies. (more details)• Automated CI/CD with Bash and GitLab CI mitigating risk of error in a project of 30+ developers.	
Data Engineer <i>Faculty of Business and Economics, HKU</i>	Jun 2023 - Sep 2023 Hong Kong SAR
<ul style="list-style-type: none">• Developed an automated ETL pipeline with Pandas, NumPy, ElementTree, and AWS RDS MySQL to process a purchased 35 GB bond holdings XML data package from the Morningstar SFTP system. (more details)• Obtained a 95% overall data pipeline speed improvement, reaching top download speeds of 13 MBps.	

ACHIEVEMENTS AND PROJECTS

Citadel Trading Challenge - 1st Place (more details)	Oct 2024
<ul style="list-style-type: none">• Brainstormed and solved a complex mathematical trading simulation game, achieving 1st place amongst 30 select participants across 6 teams from the University of Hong Kong.	
QRT Data Challenge - Top 46% Worldwide (more details)	Oct 2024
<ul style="list-style-type: none">• Trained a multilayer perceptron neural network and a gradient-boosted trees classifier to predict football game outcomes. Attained accuracy of up to 50% and competed against 800+ contestants worldwide.	
Glassdoor Sentiment Analysis with BERT-Twitter (more details)	Dec 2024
<ul style="list-style-type: none">• Set up development infrastructure and library dependencies on a virtual machine in a GPU farm provided by the HKU HPC Laboratory to run HuggingFace models on a 3.4+ million textual employer ratings from Glassdoor in a coursework project with Tower Research Capital fund managers.	
BigTwo Card Game (more details)	Dec 2024
<ul style="list-style-type: none">• Designed a multiplayer card game supporting up to four users with Java. Gained a deeper understanding of OOP, threads, concurrency, synchronization, locks, network sockets, and GUI design utilizing Java Swing.	

OTHER EXPERIENCE

Teaching Assistant for COMP1117 & COMP2113/ENGG1340	Sep 2023 - Present
<ul style="list-style-type: none">• Responded to Q&A forums on Python control statements, functions, data structures, recursions, and file I/O.• Led tutorials on Linux and Bash, C and C++ programming, Git version control, and compilation with Makefiles.	

TECHNICAL SKILLS

- **Programming Languages** Python, R, C, C++, Java, Haskell, Bash, SQL
- **Data Science Frameworks** Pandas, scikit-learn, Hugging Face, ElementTree, Tidyverse
- **Cloud and Development** AWS (EC2, S3, RDS, Cloudfront, Route 53), Git, GitLab CI, GDB, Valgrind
- **Miscellaneous** Agile Development, CI/CD, Software Development Life Cycle, Bloomberg Terminal, LaTeX