

# YITONG WU

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## EDUCATION

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**MSc Financial Technology, Nanyang Technology University, Singapore** Jul 2021-Jul 2022

- Cumulative Current GPA: 4.20/5
- Core Modules: Machine Learning, Deep Learning, Natural Language Processing, Blockchain Systems

**BSc Mathematics with Economics, University College London, United Kingdom** Sep 2017-Jun 2020

- Qualification Awarded: Upper Second-Class Honours
- Core Modules: Linear Algebra, Analysis, Mathematical Methods, Financial Economics, Probability and Statistics, Economics

**MSc Financial Engineering, WorldQuant University, Singapore** Jul 2023-Jul 2025

## WORK EXPERIENCE

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**Data Engineer, OCBC Bank, Singapore** Jul 2022-Present

- Developed OCBC Malaysia ELI Trade Automation Smart Process Robot automating trade reconciliation for more than 50 trade parameters. Reduced processing time from more than 40 minutes per trade to less than 1 minute per trade.
- Developed and implemented original solutions automating the comparison processes for different products. Reducing colleagues' workload by handling the processing of ~1500 trades daily, eliminating all human oversight errors.
- Spearheaded migration of on-premises systems onto Jenkins. Implemented PyTest framework, which automated testing of Python scripts, ensuring a minimum of 80% code coverage.
- Onboarded countless interns onto the team, seamlessly integrating them into delivering for the team.

**Data Scientist [SHINE Programme], Singtel, Singapore** Jan 2022-Jun 2022

- Clustered and labelled ~100,000 customers with more than 20 features using PySpark, assisted and piloted management in implementing a new product structure.
- Analysed customer shakedown behaviour and reported to higher management by utilising Lifeline.

**University Python Mentor, UCL, United Kingdom** Oct 2019-Jun 2020

- Prepared coding lectures and programs for less-privileged children.

## RELATED PROJECTS AND EXPERIENCES

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**Equity Price Analytics, NTU, Singapore** Jan 2022-Feb 2022

- Programmed buy and sell signals by Simple and Exponential Moving Averages while updating structures of coding to generate long-short pairs of equities for my Pairs Trading strategy.

**NLP of Toxic Comment Classification, NTU, Singapore** Oct 2021-Feb 2022

- Minimised victims of online harassment by detecting negative feelings from Twitter comments.
- Remodelled machine learning methods such as LSTM to achieve better efficiency and accuracy, compared to other less complex models such as Logistic regression.

**Car Rental Blockchain Smart Contract, NTU, Singapore** Dec 2021-Jan 2022

- Designed a smart contract using Solidity to execute the daily functions of car rental companies.

**Human Facial Expression Recognition, NTU, Singapore** Jul 2021-Oct 2021

- Engineering different models on facial recognition by PyTorch and SKLearn, achieving 76% accuracy.

**Cryptography Simulation Project, UCL, UK** May 2019-Jun 2019

- Utilised Diffie-Hellman Key methods for encryption and decryption of code for a security system.

## SKILL & INTERESTS

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### IT Skills:

- Python(PyTest, PyTorch, PySpark, etc), JavaScript, HTML, React, SQL, Solidity, Mathematica, R
- Others: AWS (AWS Certified Cloud Practitioner), Jenkins (Continuous Integration/Continuous Delivery), Version Control (Git), Teradata, dbt, YogaByteDB

**Language:** Mandarin (Native), English (Fluent), Japanese (JLPT N2)

**Interests:** Sudoku, Bodybuilder, Quick Swimmer, Bread Making, Travelling (UAE, Sri Lanka, Maldives...)