

Yao Cheng Hui

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EDUCATION

Renaissance Engineering Programme, Nanyang Technological University

Singapore

Dual Degree Program with a Master's in Technology Management & Bachelor's in Engineering Science

Expected: May 2022

- Cumulative GPA: 4.37
- Engineering Coursework: AI & Data Mining, Natural Language Processing, Computer Vision
- Business Coursework: Adv. Topics in Leadership, Accounting, Financial Management, Business Management

University of British Columbia

Vancouver, Canada

Faculty of Electrical and Computer Engineering (Study Exchange)

Sept 2019 – May 2020

- Coursework: Distributed Systems, Data Science, Entrepreneurship.

ENGINEERING PROJECTS

Semi-Supervised RVFL-based Neural Networks for solving classification problems

Singapore

Random Vector Functional Link

Aug 2021 – Dec 2021

- Researched Extreme Learning Machines, Random Vector Functional Linkss, Bayesian Inference, and regularization techniques.
- Effectively integrate research topics to investigate improvements to RVFL utilizing BI and Manifold Regularization.

Shopee Code League 2021

Singapore

Natural Language Processing

Mar 2021 – Apr 2021

- Successfully developed Deep Learning algorithm to extract and organize elements from unstructured data
- Achieved Top 15 placing among tertiary teams based on categorization accuracy

PROPOT | Nanyang Technological University

Singapore

Self-watering Aeroponics System

Jan 2019 – Apr 2019

- Hardware applications: Arduino sensors measuring temperature, humidity & lighting, Compact aeroponics watering system; Software-hardware integration; Connection design for parts
- Software applications: Blockchain transactions monitoring payments; App Development

PROFESSIONAL EXPERIENCE

Mirana Tech | Risk Analyst (Derivatives)

June 2021 – Present

- Backend development of ETL processes for analysis of trading & rewards program data utilizing Apache, Kafka, Presto.
- Implemented effective framework to categorize users and recognize trading patterns/anomalies.
- Established efficient protocols for data scanning integrated across various platforms (Slack, GCP, SQL Server, Hive etc.)

Surbana-Jurong | Software Development Intern

May – Aug 2020

- Successfully innovated optimization algorithm for placement of scanning locations for the 3D indoor reconstruction of high-rise urban housing.
- Programmed effective solutions for high-level mathematical and geometrical problems to enhance efficacy of 3D image scanning.

JCS Venture Lab | Project Coordinator

Jan – Jun 2017

- Coordinated various projects with start-up companies involving diverse industries, such as medical devices, precision engineering, clean tech and 4PL logistics.
- Facilitated applications for ISO13485, HSA Medical Device License and Clinical Trials with TÜV SÜD.
- Advised in more than 6 projects of more than \$1M in investments.

ACTIVITIES

NTU MJ Hiphop Dance | President

July 2020 – Aug 2021

- Spearheaded the planning for recruitment, auditions, trainings, and events for over 200 members and alumnus.
- Orchestrated performances and filming for school events and concert performances.
- Liaised with various external partners for funding, events collaboration, and various other services.

NTU Renaissance Engineering Program Club | Election Committee

Aug 2017 – Aug 2021

- Conducted yearly presidential and committee elections for REP club, which makes executive decisions on student activities and organizes meetings with various tech companies.
- Executed election campaigns and voting for both local and overseas club members.

SKILLS & INTERESTS

- IT Skills: Word, PowerPoint, Excel, C, Python, R, MATLAB, SQL, Keras, Tensorflow, PowerBI, MongoDB, RapidMiner, Tableau, Scratch.
- Certifications: Deep Learning, Machine Learning, Data Analytics, Business Analytics, Machine Learning in Finance (NYU), SQL in Data Science (UCD).
- Languages: Fluent in English and Mandarin, Intermediate proficiency in Japanese.
- Interests: Dance, Snowboarding, Softball, Bowling.