

KOH RONG JIA

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EDUCATION

Nanyang Technological University, Singapore

Aug 2021 – May 2025

Bachelor of Engineering in Chemical and Biomolecular Engineering

- Expected Honours (Distinction), Current CGPA: 4.00/5.00.
- Currently pursuing a specialization in Machine Learning and Data Analytics.

VinUniversity, Vietnam

Jun 2024 – Jul 2024

TFLEaRN ASEAN Summer Programme

- Collaborated cross culturally with a team of 4 students from ASEAN and Australian universities to develop an entrepreneurship project aligned with Sustainable Development Goals.
- Gained new insights and perspectives into the economic issues in Vietnam and Southeast Asia through discussions in class.
- Pitched our project idea to a panel of three venture capitalists in Vietnam and 80 program participants.

ACADEMIC PROJECT

Final Year Design Project

Aug 2024 – Present

- Designed and sized unit operations to upgrade crude glycerol into valuable products using ASPEN Hysys.
- Conduct HAZOP analysis for critical equipment and developed detailed P&ID using Visio.
- Performed sensitivity analysis to identify and optimise dominant design variables.

Nanyang Technological University

Aug 2024 – Dec 2024

Data Analytics Project – How to go viral on YouTube

- Final grade: A
- Applied feature engineering and data analytics to assess the impact of timing, title length, tag counts and video categories on the virality of videos.
- Determined optimal posting times (12 – 6pm) and effective length titles (5 – 10 words) using Random Forest and XGBoost with a model accuracy of around 80%.

WORK EXPERIENCE

Abbott Nutrition Research and Development Singapore

Jan 2024 – Jun 2024

Process and Quality Intern

- Cleaned, imported, and managed 4 large datasets using Microsoft Excel and Access.
- Developed a Power BI dashboard to analyse and visualize pre-trial and post-trial data, presenting key insights to Product Developers and Senior Process Engineers to streamline process improvements.
- Engaged an intern from Columbus Pilot Plant in the US to replicate a similar data analytics infrastructure.
- Adopted cGMP and GDP practices while working there.

CO-CURRICULAR ACTIVITIES

Hall IV Contract Bridge Club

Aug 2023 – Aug 2024

Captain

- Planned lessons and coached 3 beginners over 10 months to prepare for school-level competitions.
- Achieved 1st place at National School Games 2024 with 2 other members from the club.
- Organised club trainings twice a week and fortnightly inter-hall friendly matches.

Ohmelette (Hall IV Dance Club)

Aug 2022 – Aug 2023

Dance Captain

- Choreographed a performance for a hall event and reviewed dance steps with other members of the team.
- Coordinated with and assisted an external choreographer with choreography.
- Organized dance rehearsals, practices, and costumes for a school dance competition, achieving 9th place.

VOLUNTEERING EXPERIENCE

Regional Service-Learning Expedition

Nov 2017 – Nov 2017

Team Leader

- Planned and executed a 3-day Service-Learning expedition to Al Khoir Orphanage in Tanjung Pinang.
- Engaged 29 children with practical and fulfilling activities and educated them on Maths and English.
- Refurbished and painted the walls with murals to improve the vanity of the Orphanage.

SKILLS

Languages: Proficient in English & Chinese, conversant in Korean.

Digital Skills: Proficient in Microsoft Office, PowerBI and MATLAB.

Basic Skills in Microsoft Access, Aspen HYSYS, Excel Visual Basic, Python and SQL.

Certifications: Google Data Analytics Course

HOBBIES & INTERESTS

Dancing, Sports (Table Tennis), Card Games (Contract Bridge), Travelling, Language Learning