

# Wei Yang, Tan (Ventus)

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## EDUCATION

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**Imperial College London** | *London, United Kingdom*

Oct. 2020 – Jun. 2024

- MEng Aeronautical Engineering - *Graduated with First Class Honours.*
- Selected as Undergraduate Teaching Assistant for Computing & Numerical Methods module.
- SEO London Candidate, active member of Google Developer Student Club @ Imperial.

## WORK EXPERIENCE

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**DevOps/Software Engineer** | *Macquarie Group - Cloud Platforms Team, United Kingdom*

Jul. 2024 – Present

- Driving cloud transformation initiatives, including deploying scalable message relay solutions for the in-house treasury platform using AWS MSK, while managing multiple middleware services on AWS EKS.
- Enhancing developer productivity by administering and optimizing virtual machines workstations on AWS EC2.
- Graduate Volunteer Network committee - successfully raising £6,000 for Hibiscus Initiatives in an internal campaign.

**Technology Intern** | *Macquarie Group - Futures Technology, United Kingdom*

Jun. 2023 – Aug. 2023

- Developed a data reconciliation tool processing over 30,000 daily entries, saving 4 man hours of daily work.
- Migrating 8 legacy SybaseSQL stored procedures to modularised Python scripts and facilitated cloud transformation.

**Software Engineering Intern** | *GuruLab (EdTech Startup), Malaysia*

Jul. 2022 – Sep. 2022

- Maintained in-house admin panel and applications used by tutor and students to learn English.
- Implemented end-to-end tests using Playwright and API-level unit tests following test-driven development principles.
- Developed 8 user-facing features with responsive UI enhancements for an application serving over 600 users, resulting in a 20% decrease in client churn rate.

## TECHNOLOGY PROJECTS

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**Expanding Open Source CFD Package - Nektar++** | *Imperial College London*

Oct. 2023 – Jun. 2024

- Enhanced computational efficiency and streamlined data transfer for simulation results exceeding 50GB by integrating legacy code in C++/Shell with a Python wrapper and implementing InvenioDB APIs for database management.
- Developed detailed tutorials on Jupyter Notebook for seamless onboarding of new users accessing the database.

**Learn With Feynman: Interactive Student Simulator** | *Microsoft Imagine Cup*

Jan. 2024 – Feb 2024

- Designed and developed a web application with MaterialUI and OpenAI Assistants API enabling users to create virtual students for interactive theorem (Feynman Learning) with text-to-speech and speech-to-text features.

**Solar Panel Cost Impact Calculator** | *START Hack - St Gallen, Switzerland*

Mar. 2023 – Apr. 2023

- Advocated for sustainable energy use by creating a web application with 3D animated interface (*Three.js* & *Next.js*) to calculate electricity cost saved upon implementing solar panels based on geographical location.
- Awarded top in the Energy Category for Google Track of the hackathon.

## LEADERSHIP, VOLUNTEERING & EXTRACURRICULAR

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**Deputy National Executive Director (UK)** | *International Council of Malaysian Scholars*

Feb. 2021 – Feb. 2022

- Led a team of 50 and collaborated with corporate sponsors and directors across 6 countries to develop the professional skills of over 500 Malaysian undergraduates through initiatives related to IoT, Digitalisation, & Banking.
- Spearheaded the production of a Instagram Video series to increase social media followers growth by 25%.

**Founding Team and Program Associate** | *Rakan Tutor*

Jun. 2021 - Jan. 2022

- Non-profit organisation that provided free Mathematics tutoring to 250 underprivileged students in Malaysia.
- Constructed the program structure and prepared tutoring resources, improved students' score by 17% on average.

## TECHNICAL SKILLS, INTEREST & LANGUAGE

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**Programming Languages:** C++, Python, Java, JavaScript, TypeScript, MATLAB, HTML, CSS, Shell/Bash.

**Tech Stacks:** React, Vite, NodeJS, ChakraUI, Prisma, EKS, EC2, Kafka (MSK), Bamboo, Airflow, Grafana.

**Interests:** System Design & Development, Trading & Investment, Piano, Double Bass, Basketball.

**Languages:** Mandarin (Native), English (Fluent), Malay Language (Fluent), Cantonese (Conversational).