Wei Yang, Tan (Ventus)

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EDUCATION

Imperial College London | *London, United Kingdom*   Oct. 2020 – Jun. 2024
- MEng Aeronautical Engineering - *on track for First Class*
- Modules include Computing & Numerical Methods, High-Performance Computing - starting in Jan 2023
- Treasurer in Imperial College Union Malaysian Society, Member of Imperial College Google Developer Student Club
- Developed collaborative skills, critical thinking, and data-driven problem-solving skills through group projects

WORK EXPERIENCE

Software Engineering Intern | *GuruLab (EdTech Startup)*   Jul. 2022 – Sep. 2022
- Tech Stacks: Git, React, Refine, Chakra UI, NestJS, NodeJS, Vite, Prisma, Playwright, Exposed to CI/CD
- Designed and built 8 user-facing features and responsive UI for a new application over 600 users while maintaining three other applications, decreased churn rate of students by 20% and increased user engagement by 35%
- Built an analytic feature that allows tutors to evaluate best and worst performing questions of an assignment, reduced tutor's weekly class evaluation time by 90 minutes
- Wrote user-facing end-to-end tests and API-level unit tests with streamlined test-driven development

Technology Spring Insight Program Intern | *Macquarie Group*   Apr. 2022 – Apr. 2022
- Explored multiple tech stacks used to maintain platforms that support more than one million banking customers
- Gained insight about agile scrum delivery methodology and management frameworks used in technology teams

Digital Operations Intern | *Sunway Property*   Jun. 2021 – Sep. 2021
- Documented methodologies for data processing and MailChimp mailing list automations, used RegEx to filter and validate responses for internal survey forms, reduced data cleaning time by 2 man hours per week
- Created manpower reports and visualised recruitment analytics using Microsoft Excel, proposed hiring solutions such as workforce diversity and streamlined employment, expected to reduce time-cost by 5 hours per job opening

TECHNOLOGY PROJECTS

Technology Consulting Project | *iCube International, in partnership with CircaGene*   Apr. 2022 – Jun. 2022
- Created a dashboard on MongoDB Compass to display patient health status to related bacterium and disease, reduced search time by 2 hours per week, allowing business to develop recommendations earlier to patients
- Documented SOPs to sustain and expand a versatile database on both Microsoft Access & MongoDB

Movement of a Two-Stage Rocket | *Imperial College London*   Jan. 2022 – Feb. 2022
- Utilised numerical integration schemes on C++ to simulate the motion and determine feasibility of a rocket sizing
- Implemented object-oriented programming and created custom classes to increase efficiency of the program

Simulation of Viral Disease Transmission | *Imperial College London*   Jan. 2022 – Feb. 2022
- Project inspired by COVID-19 pandemic to simulate disease transmission for population in a fixed domain
- Plotted running graphs of population movement, health status and immunity level across 10 days on MATLAB

LEADERSHIP, VOLUNTEERING & EXTRACURRICULAR

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 Malaysian undergraduates through initiatives related to IoT, Digitalisation, & Banking
- Spearheaded the production of an iGTV Series 'AskJeLah' to increase Instagram 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, initiated the peer-support group between 500 tutors and tutees

Head of Sponsorship Department | *Taylor's Symphony Orchestra*   Sep. 2019 – Sep. 2020
- Led a team of three and increased annual sponsorship amount from RM2000 to RM8000 (400%)

TECHNICAL SKILLS, INTEREST & LANGUAGE

Technology: C++, Python, MATLAB, HTML, CSS, JavaScript, TypeScript, PostgreSQL, Microsoft VBA, React
Interests: Web Development, Stocks & Crypto Investment & Trading , Plays the Double Bass in Orchestra, Basketball
Language: Mandarin (Native), English (Fluent), Malay Language (Fluent), Cantonese (Conversational)