Rvan Joo Rui An

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Summary

High school student skilled in analytical thinking and problem-solving. Excelled in mathematics olympiads, proficient in programming and experienced with relevant mathematical software. Collaborative team player with strong project management skills and a commitment to continuous learning.

Education

GCE A-Level 2023 - 2024

Dunman High School Singapore, SG

GCE O-Level 2021 - 2022Chung Cheng High School (Main) Singapore, SG

o L1R5: 6 (raw), 4 (nett), A1 in Mathematics, Additional Mathematics, Physics, Chemistry, Biology

- o Dr. Chuang Chu Lin Scholarship for 1st in Standard
- Chuang Weilang Mathematics Award
- o Bilingual Award for Excellence in English and Higher Chinese, Best in Additional Mathematics (Secondary Three) Award, Best in Mathematics (Secondary Three) Award

Experience

Teaching Intern Nov 2022 - Dec 2022 Cemerlang Bakti Tuition Centre Selangor, MY

 Conducted mathematics olympiad classes for 10 students, developed and delivered lesson plans focusing on problem-solving techniques, mathematical reasoning, and critical thinking skills; achieved advancements in students' problem-solving skills and mathematical comprehension.

Skills

- Programming: Python, LATEX
- · Libraries: numpy, pandas, matplotlib, seaborn, scikit-learn
- · Softwares: VS Code, GitHub, Overleaf, TeXstudio, RStudio, Google Colab, Kali Linux
- · Languages: English (native), Chinese (native), Malay (native), German (limited proficiency)

Projects

 Analysing Happiness: Understanding Determinants Across Global Contexts | Jupyter Notebook project which analyses data from World Happiness Report 2023 to determine most important factor contributing to happiness of a country.

Publications

- Fons | Book which contains my notes when self-studying university mathematics. (in writing)
- Mathematics Olympiad: A Guidebook | Book which provides expert guidance and practice problems to excel in mathematics olympiad competitions. (in writing)
- · Physics Olympiad: A Guidebook | Book which provides expert guidance and practice problems to excel in physics olympiad competitions. (in writing)

Achievements

Honours

- Recipient of ASEAN Scholarship in 2020, offered by Ministry of Education of Singapore to bright young students from ASEAN countries to study in Singapore
- Member of Malaysian Mensa Society, Mensa International since 2020, Test Reference Number: MY023479

Awards

- Singapore Mathematics Olympiad 2022 2024: 3 Silver awards
- Singapore and Asian Schools Math Olympiad 2019 2023: 6 Gold awards, top in Singapore in 2022, top in Singapore in 2023, top in Malaysia in 2024
- Singapore International Mathematical and Computational Challenge 2024: Merit award
- Australian Mathematics Competition 2019 2023: 2 Prize awards, 2 High Distinction awards, best in school in 2023
- Singapore Astronomy Olympiad 2024: Bronze award
- High School Mathematical Contest in Modeling 2023: Honourable mention
- Singapore Physics Olympiad 2023: Bronze award
- Singapore Junior Chemistry Olympiad 2022: Bronze award
- Malaysian Computing Challenge 2020 2021: 2 Gold awards
- · Hua Lo Geng Secondary School Mathematics Competition 2019: 2nd place
- Chen Jingrun's Cup Secondary School Mathematics Competition 2019: 1st place

Activities & Extracurriculars

- Committee member of **Befrienders Programme** 2024: Implemented training programme for 100 Year 5 students to become student befrienders, empowering them with effective communication and mentorship abilities; resulted in successful integration of incoming O-Level students into school community.
- Secretary of **Class Committee**: Managed the collection of funds for the class fund, overseeing financial transactions and ensuring transparency and accountability in fund management. Coordinated discussions, planning sessions, and execution of class activities aimed at fostering bonding among classmates.
- Member of **Mathematics Society**: Planned and executed Math Week, aimed at promoting Mathematics to students through games and exhibitions; designed a poster on set countability.
- Member of Infocomm Club: Enrolled in a Swift programming course to develop mobile applications. Participated in learning journey to Open Governmental Products, gained insights into development of user-friendly websites and applications.
- Committee member of **Chinese Chess Club**: Communicated with various stakeholders in planning and execution of Chinese chess competition, aimed at fostering heightened interest in Chinese chess among club members.
- Secretary of Academic Research Society: Documented meeting minutes, coordinated planning and execution of events aimed at cultivating deeper interest in mathematics among club members; provided mentorship and guidance to club members.
- Member of Chess Club: Represented school and achieved excellent results in chess tournaments at the inter-school, inter-state, national and international levels.

Community Service

- **Volunteer tutor** at Springfield Secondary School: Tutored 20 students in need of assistance in Mathematics and Science subjects. Designed and delivered personalised tutoring sessions tailored to individual student needs, targeted specific areas for improvement; led to improvement in students' academic performance.
- Volunteer teaching assistant at Brahm Centre: Communicated with 10 seniors, provided practical guidance in utilising mobile application; improved their digital proficiency and technological competence.
- **Volunteer** at Willing Hearts: Assisted in operating a daily soup kitchen. Prepared, cooked and distributed 200 meals every day to the elderly, disabled individuals, low-income families, children from single-parent households, and migrant workers.