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EDUCATION

Tanglin Trust School, Singapore	2023-25
IB - Higher Level: Mathematics Analysis and Approaches, Physics, Chemistry	
IB - Standard Level: Economics, English Language & Literature, French	
IGCSE - Mathematics, Physics, Chemistry, Biology, Computer Science, Economics, English, French, Drama	2021-23

Online Courses

2022-23

- CSCI-50 Harvard Summer School - Intensive Introduction to Computer Science (highest mark in the Final Test)
- Introduction to Python by the University of Michigan; Introduction to Machine Learning by Duke University
- Sustainable Finance by the Investment Management Association of Singapore

ACADEMIC ACHIEVEMENTS

- IGCSE School Topper with Highest Marks in 2023
 - World (Physics, Math, French, Biology); Asia (Chemistry); Singapore (English Literature)
- Perfect 1600 score on SAT on first attempt 2023

MATHEMATICS:

- Purple Comet Math Meet 2024 – 1st in Singapore, top 3% in the world.
- British Mathematics Olympiad Round 1 (BMO 1) 2023 (Qualified through the United Kingdom Mathematics Trust Senior Math Challenge) – Merit, Highest in Year
- United Kingdom Mathematics Trust competition 2021-23 - Gold Certificate for 3 consecutive years
- Singapore & Asian Schools Math Olympiad (SASMO)'23 - Gold Medal: 1st in School, 11th in Singapore and 134th in world
- University of Waterloo Contest (Euclid'24: Distinction (81/100); Cayley'23 and Pascal'22: Gold Medal: School Champion and International Student Honor)

SCIENCE:

- Royal Society of Chemistry Olympiad 2024 – Gold Award, top 8% in the world
- British Physics Olympiad 2021-24 - Gold Certificates for 4 consecutive years
- British Astronomy and Astrophysics Olympiad 2022 – Gold Award
- Science Bee Regional Round 2023 - 2nd place. Qualified for the Asian Championships

COMPUTER SCIENCE:

- Microsoft Imagine Cup Junior 2024 – Winner
- Conrad Challenge 2023-24 - Achieved Conrad Innovator status ([URL](#))
- Hackathons (Uber Global'23: Top 5 in APAC & Australia; CloudHacks'23: Top 5 in Singapore; Singapore Hack2ber Coding Challenge 2023 – Top 5% Certificate of Outstanding Achievement)
- Canadian Computing Competition (2024 – International Student Honor Roll; 2022 – Distinction)

ECONOMICS:

- World Economics Cup Global Round 2023 – Team placed 3rd of 421 teams & I placed 1st individually of 2284 students
- Bretton-Woods International Economics Competition 2024 – 2nd Place
- National University of Singapore's National Economics and Financial Management Challenge (NEFMC) 2024 – 4th Place

LEADERSHIP RESPONSIBILITIES

Elected School Head of Sustainability (Student Council) 2024-Present

- Worked with Metanoia (sustainability consultants) to conduct an environmental audit of my school to determine hotspots, and presented roadmaps to net-zero by 2050 to the school board of governors.
- Connected my school with World Wildlife Fund for Nature (WWF), organizing several sustainability projects like the Plastic Waste Project and elevating our school to the status of a WWF Eco-School.
- Presented green cleaning project at a global summit; organizing national sustainability fair.

Elected Head of School Debate Squad

2024-Present

- Mentored 80+ students through 120+ sessions by organizing 'The Great Debate'
- Hosting national debate tournament with 20+ schools

Elected School House Vice Captain

2023-2024

- Organized the prestigious House Day and School Fun Run to raise \$10,000 for ARC Children's Centre.

- Founder and Head, Mount Olympus Math ([website](#) for Olympiad training)** **2022-Present**
- Trained around 50+ students in Singapore and 150+ underserved students in India for 12 Mathematics Olympiads
- Founder and Head, MathAdapt ([website](#) for neurodiverse learners)** **2022-Present**
- Developed a web application on which students with ADHD, dyslexia and color blindness could learn Mathematics.
 - Used by 30+ schools across 5 countries. Received a Certificate of Appreciation from Dr. Patti Hill, International President Lions Club. Published in national newspapers.
- Team Captain, World Scholars Cup (Global round)** **2022**
- Team Ranked 1st in the world; Won the Asimov Award (highest individual score in Quiz). Won Best Scholar in Region.
 - Continue to train members weekly on 3 disciplines - Debating, Quizzing, and Writing
- Head, Economics Debate Society, Tanglin Trust School** **2022-2023**
- Organized the school Economics Forum 2023. Connected with Mr Pradeep Nair, Global Head Structured Solutions & Development, Standard Chartered Bank to conduct an interview about supply chains and sustainable trade finance
 - Organized 10 debate skill sessions, mentored upcoming debaters and conducted an Economics Debating Competition
- Founder and Head of Cyber Security Club, Tanglin Trust School** **2023-Present**
- Organized a cybercrime awareness workshop for the State Bank of India Pensioners Club, Dehradun
 - Trained a team of students to educate the elderly about cyber security threats
 - Explained Python programming concepts including its use in ethical hacking algorithms.
- Founder and Head of Science Bee Club, Tanglin Trust School** **2023-Present**
- Trained 17 students for the International Science Bee. 4 members qualified for the Asian Championship.
 - Organized a STEM Conference with professors from the National University of Singapore
- DEBATE**
- Ministry of Education-Anglo Chinese Junior College Debate Competition 2024 – Plate Semi-Finalists
 - International Debating Championships (IDC) 2023 - Placed in the top 4 out of 54 teams.
 - Raffles Debate Association (RDA) Competition 2022 (Singapore inter-school debate) – Team placed 1st
- PERFORMING ARTS**
- Piano** **2020-Present**
- Completed the Associated Board of the Royal School of Music (ABRSM) Grade 5 qualification.
 - Participated in school and external concerts (including online concerts during COVID) such as the Studio Kee concerts ([URL](#)) bi-annually and the Senior Musicians Concert at Tanglin Trust School
 - Worked as a piano tutor to train students
- Drama/Theater** **2014-Present**
- Participated in school drama productions such as Oliver Twist, Aladdin, Peter Pan and The Museum Heist Theories
 - Mentored younger performers as a director in a production of The Changing Room and Pool No Water
 - Wrote & enacted criticism of toxic masculinity
- INTERSHIPS/VOLUNTEERING/RESEARCH**
- Author of research paper – “The design and development of an educational device used to enhance the perception of 2-D shapes and angles by blind individuals”** **Jan 2023-Present**
- Carried out a literature review of current innovations in this field and identified the lack of effective, low-cost solutions.
 - Designed a prototype with a focus on ergonomics and user requirements, analyzed using QFD matrices.
 - Built a prototype and sent it to the National Association for the Blind in New Delhi for user feedback.
 - Published in Springer Nature, SCOPUS-indexed: Lecture Notes in Mechanical Engineering
- Author of research paper – “Investigating the Integration of Blockchain into Supply Chains to Measure Scope 3 Carbon Emissions: A Survey”** **Jul 2023-Present**
- Carried out a literature review and proposed research recommendations and possible methodologies to investigate the gains in efficiency and accuracy from interlinking several supply chains together into one blockchain.
 - Reviewed by Teaching Fellow at Harvard University, Dr. Guy White.
 - Published in Springer Nature, SCOPUS-indexed: Studies in Systems, Decision and Control
- Google** **Jun 2023-Sep 2023**
- Collected and analyzed data to uncover correlations between a range of socioeconomic factors and the numbers of submarine cables
 - Proposed and presented solutions to managing explosions in data requirements in the next 50 years in terms of transfer, storage and security
- National University of Singapore (NUS), Centre for Quantum Technologies** **May 2023-Present**
- Created [videos](#) about Schrödinger’s Cat and the Math behind the concept to demystify it with Dr. Berthold-Georg Englert

Diligent Global**Jul 2023-Jul 2024**

- Assisted in the development of a computer vision software which used a machine learning model to detect violations in Personal Protective Equipment for a pharmaceutical company
- Created the error handling routines for interactions with the queuing and caching system, debugged the program and troubleshooted incidents

Volunteer at the Singapore Red Cross**Mar 2023-Present**

- Wrote articles inspiring a spirit of volunteerism and describing the contributions of Volunteer Leaders

Lead Editor and Social Media Content Creator for the Junior Imprint Magazine**Aug 2023-Present**

- Wrote and edited articles; launched social media cyber security awareness campaign
- Conducted 20+ workshops with 150+ writers and editors on concision, research, evaluation, etc.