



# Welcome to my portfolio!

Hello, I am Ryan Tung Tze-Jin.

description about me here



More description about me



# Leadership

## Class Vice-Chairperson 2021

Serving as the Class Vice-Chairperson in 2021 was a privilege and responsibility that allowed me to contribute to the cohesion and well-being of my classmates. This role involved assisting the class chairperson in various tasks, representing the class in meetings, and fostering a positive and inclusive class environment. Through my tenure as Class Vice-Chairperson, I developed leadership skills, communication abilities, and a sense of camaraderie with my peers.

## SYFC Vice-Chairperson 2023

Serving as the CCA Vice-Chairperson in 2023 was a rewarding leadership experience that allowed me to contribute to the growth and development of my co-curricular activity. This role involved coordinating activities, supporting members, and representing the CCA to the school community. Through my tenure as CCA Vice-Chairperson, I developed leadership skills, teamwork abilities, and a sense of responsibility towards my peers and the organisation.





# Achievements

## Academics

Receiving the CCC - CDC Education Merit Award in 2022 was a significant recognition of my academic achievements and contributions to the School of Science and Technology, Singapore. This award highlighted my dedication to academic excellence, leadership, and community service. It motivated me to continue striving for success in my studies and extracurricular activities. The CCC - CDC Education Merit Award acknowledged my hard work and encouraged me to maintain a high standard of excellence and make a positive impact in my school and community.



**CCC – CDC  
EDUCATION MERIT AWARD  
2022**

is presented to

**RYAN TUNG TZE-JIN**

of

SECONDARY 2

SCHOOL OF SCIENCE AND TECHNOLOGY, SINGAPORE

MR EDWIN TONG  
DEPUTY CHAIRMAN  
PEOPLE'S ASSOCIATION

MS DENISE PHUA  
MAYOR  
CENTRAL SINGAPORE DISTRICT

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School of Science and Technology, Singapore Mail - 2023 EDUSAVE SCHOLARSHIPS FOR INDEPENDENT SCHOOLS (YEARLY A...



RYAN TUNG TZE JIN student <ryan\_tung\_tze\_jin@s2021.ssts.edu.sg>

**2023 EDUSAVE SCHOLARSHIPS FOR INDEPENDENT SCHOOLS (YEARLY AWARD)**

1 message

MOE LS (MOE) <MOE\_LS@moe.gov.sg>  
To: "ryan\_tung\_tze\_jin@s2021.ssts.edu.sg" <ryan\_tung\_tze\_jin@s2021.ssts.edu.sg>

1 April 2024 at 14:44

1 April 2024



SCHOOL OF SCIENCE AND TECHNOLOGY, SINGAPORE

Dear RYAN TUNG TZE-JIN

**2023 EDUSAVE SCHOLARSHIPS FOR INDEPENDENT SCHOOLS (YEARLY AWARD)**

**LETTER OF AWARD**

Congratulations! We are pleased to inform you that based on your school examination results in academic year 2023, you have been awarded the 2023 Edusave Scholarships for Independent Schools (Yearly Award).

2. The award quantum will be the lower of the following:
  - (a) \$2,400; or
  - (b) the annual school fees charged by the Independent School in 2023, less the annual amount of school fees and standard miscellaneous fees paid by students in government/government-aided schools.

3. The ESIS (Yearly Award) quantum will also deduct the portion of the fee subsidy covered under Independent School Bursary or any other awards / scholarships/programmes, if applicable.

4. The award quantum will be downloaded to the school to make the necessary adjustment for your fees, where applicable.

5. We wish you every success in the future.

Yours sincerely,

Receiving the Edusave Scholarships for Independent Schools in 2023 was a significant honour and recognition of my academic achievements and contributions to the school community. The scholarship provided financial assistance and served as a testament to my hard work, determination, and commitment to academic excellence. Through this award, I felt empowered to pursue my educational goals and positively impact society.



# Achievements

## STEM-related

Participating in the Youth Cyber Exploration Programme in 2021 was an eye-opening experience that introduced me to cybersecurity and digital forensics. This program provided hands-on training in cybersecurity concepts, ethical hacking techniques, and digital investigations. Through the Youth Cyber Exploration Programme, I developed critical thinking skills, problem-solving abilities, and an awareness of cybersecurity issues in the digital age. The prizes of a year-long subscription to TryHackMe also helped me further develop my skills.

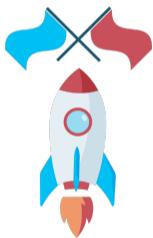
### Youth Cyber Exploration Programme

Central Capture-The-Flag Competition

### Youth Cyber Exploration Programme

Central Capture-The-Flag Competition

#### Certificate of Participation



Is hereby presented to:

**Tung Ryan Tze-jin**

For completing the

**2021 YCEP CCTF**

24 JUNE 2021



Is hereby presented to:

**Ivy Tay**

**Samuel Poon**

**Ryan Tung**

**James Chen**

**Justin Lim**

For achieving

**First Place Winner in  
the Team Category**

24 JUNE 2021



MR SELWYN SEAN SCHARNHORST  
DIRECTOR, ECOSYSTEM DEVELOPMENT DIVISION,  
CYBER SECURITY AGENCY OF SINGAPORE



ORGANISER



EVENT PARTNER



ORGANISER



EVENT PARTNER



Competing in the International Math Contest in 2021 allowed me to test my mathematical skills and problem-solving abilities on a global stage. This competition challenged me to solve complex mathematical problems under time constraints and in a competitive environment.



# Achievements

## STEM-related

Earning the Cyber Silver Explorer Certificates in 2021 was a testament to my commitment to cybersecurity education and digital literacy. These certificates recognised my proficiency in cybersecurity fundamentals, online safety practices, and ethical behaviour in cyberspace. I gained awareness of cybersecurity threats and strategies to protect myself and others online through Cyber Silver Explorer.





# Achievements

## STEM-related

### Singapore Amazing Flying Machine Competition

At SIC, I grew my flight simulation skills in preparation for joining the aviation industry as a pilot.

Participating in the Flight Experience Programme at SYFC HQ in 2023 was a thrilling opportunity to get real-life experience with aviation and flying. This programme allowed me to sit in an RSAF C-130 flown by experienced pilots. I explored the plane during the flight, looking at the view through the cockpit. Through the Flight Experience Programme, I gained a deeper understanding of aviation, piloting, and aerodynamics while fueling my passion for flying.



# Achievements

## STEM-related

### Singapore Amazing Flying Machine Competition

Representing Singapore Schools at the SYFC Inter-school Aeromodelling Competition (SIAC) 2022/2023 in the Launch Glider category was an exhilarating experience. This local event required us to design, build, and launch gliders, focusing on achieving optimal flight performance. The competition tested our engineering skills, creativity, and ability to work under pressure. Through this experience, I gained a deeper understanding of aerodynamics and the principles of flight while learning the importance of precision and teamwork in aeromodelling.



Representing Singapore Schools at the SYFC Inter-school Aeromodelling Competition (SIAC) 2022/2023 in the Flight Simulation category was an exciting opportunity to immerse myself in aviation. This local event required us to fly a virtual Cessna around Seletar Airport in a rectangular circuit pattern, testing our piloting skills and strategic thinking. The competition provided a realistic simulation environment, enhancing my understanding of flight dynamics and decision-making under pressure. This experience gave me greater confidence in my abilities and a more profound passion for aviation.



# Achievements

## STEM-related

Participating in the AI for Industry Literacy in AI program in 2023 gave me a comprehensive understanding of artificial intelligence and its applications across various industries. This program equipped me with the knowledge and skills to navigate the evolving landscape of AI technology and its potential impact on the workforce and society.



## Ryan Tung Tze-Jin

has successfully completed the Apple certification requirements of

**App Development with Swift**  
Associate

April 22, 2023  
Date Issued



Completing the App Development with Swift Associate certification in 2023 was a significant milestone in my journey as a developer. This certification validated my proficiency in Swift programming language and app development fundamentals. It opened doors to opportunities in mobile app development and equipped me with the skills to create innovative and user-friendly applications.



# Achievements

## STEM-related

Participating in the Swift Accelerator Programme (SAP) in 2023 accelerated my learning and proficiency in Swift programming. This intensive program provided me with hands-on experience, mentorship, and exposure to industry best practices in iOS app development. Through the Swift Accelerator Programme, I honed my coding skills and prepared myself for a career in mobile app development.

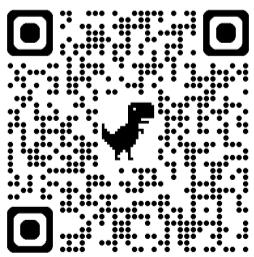


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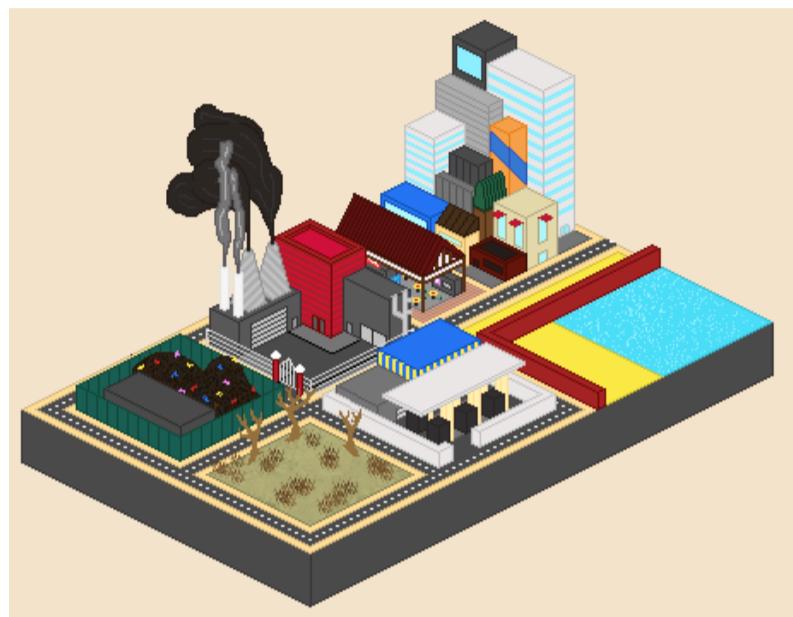
Being involved in the PlaneMail project in 2023 during SAP was an exciting opportunity to innovate in communication and explore the Swift programming language. This project challenged me to develop solutions for efficient email planning through an application. Through PlaneMail, I gained practical experience in project management, teamwork, and problem-solving while also exploring the potential of Swift technology in creating smooth software applications.



# Achievements

## STEM-related

Participating in Sus-city in 2023 allowed me to explore sustainable urban development concepts and solutions. This experience broadened my understanding of environmental sustainability and inspired me to contribute to building more resilient and eco-friendly cities. Through Sus-city, I gained insights into sustainable practices and learned how technology can be leveraged to address urban challenges.



Scan the QR code to check it out!

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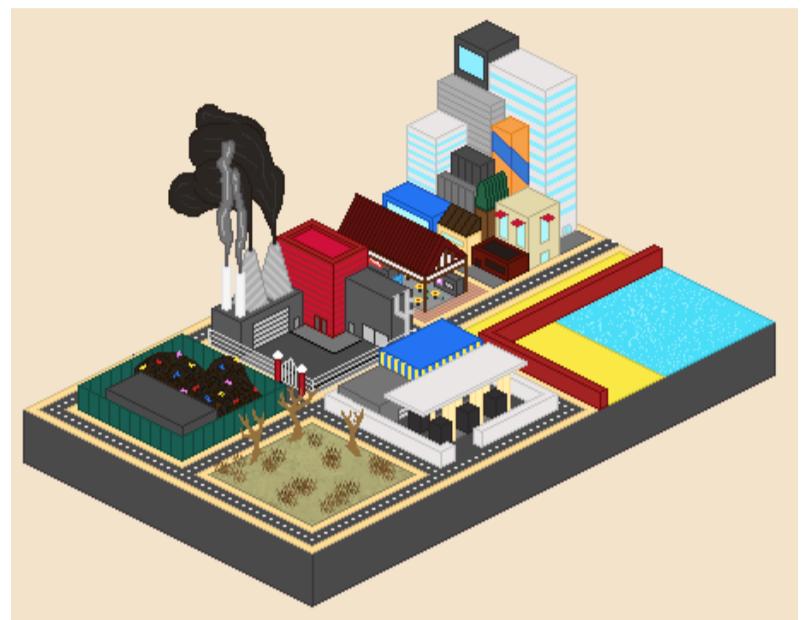
Achieving the SST INC Best App of the Year second runner-up position in 2023 was a testament to my passion for app development and innovation. This competition challenged us to develop a unique and functional app that addresses real-world problems. My team and I worked tirelessly to conceptualise, design, build our app, focusing on user experience and practical applications. This process enhanced my coding skills, creativity, and problem-solving abilities. This achievement was not just a recognition of our technical skills but also of our ability to work collaboratively and think critically about the needs of our users. The experience motivated me to continue exploring app development and strive for excellence in future projects.



# Achievements

## STEM-related

San Francisco learning journey here



Scan the QR code to check it out!

[Same link here](#)

Photo here

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# Achievements

## STEM-related

For Innofest, my group developed and presented the minimum viable product of a tutorial app for the elderly to ensure that whenever they download an app, they receive an alert that shows them the option of a video tutorial on how to use the app, effectively bridging the gap between the elderly and technology. We received honourable mention.



## CERTIFICATE

of participation

Proudly presented to

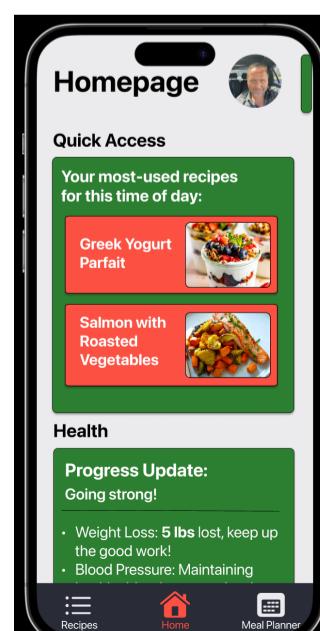
*Ryan Tung Tze-Jin*  
of  
*Team TechCare Trio*

for your participation in Splash Awards 2023

Adrian Chye  
Chairman, SCS Student Chapter  
Singapore Computer Society

Aow Jia Rong  
Chairman, SCS Splash Awards 2023  
Singapore Computer Society

Participating in Splash Awards with a proposed solution to an identified nutrition problem in healthy ageing, the smart nutrition planner app, NourishWise+, which aimed to provide personalised meal planning, nutritional guidance, and social support for older adults, provided me with an opportunity to re-visit my design and research skills.





# Achievements

## STEM-related

Representing my school and achieving the Gold Award at the International Perse Coding Team Challenge (Round 1) in 2024 was an incredible experience. It was a testament to our team's hard work, collaboration, and technical skills in coding. Winning this award not only validated our abilities but also motivated us to strive for excellence in the field of computer science and programming. Advancing to the Perse Round 2 Final and achieving a Merit in 2024 was significant, showcasing my continued dedication and proficiency in coding and problem-solving. Participating in the final round further sharpened my skills and provided valuable learning experiences.



**Ryan Tung Tze-Jin Tan Jun Yu Rian**

ROUND 1 PAIRS CHALLENGE

2023-24



**Ryan Tung Tze-Jin**

ROUND 2 FINAL

2023-24

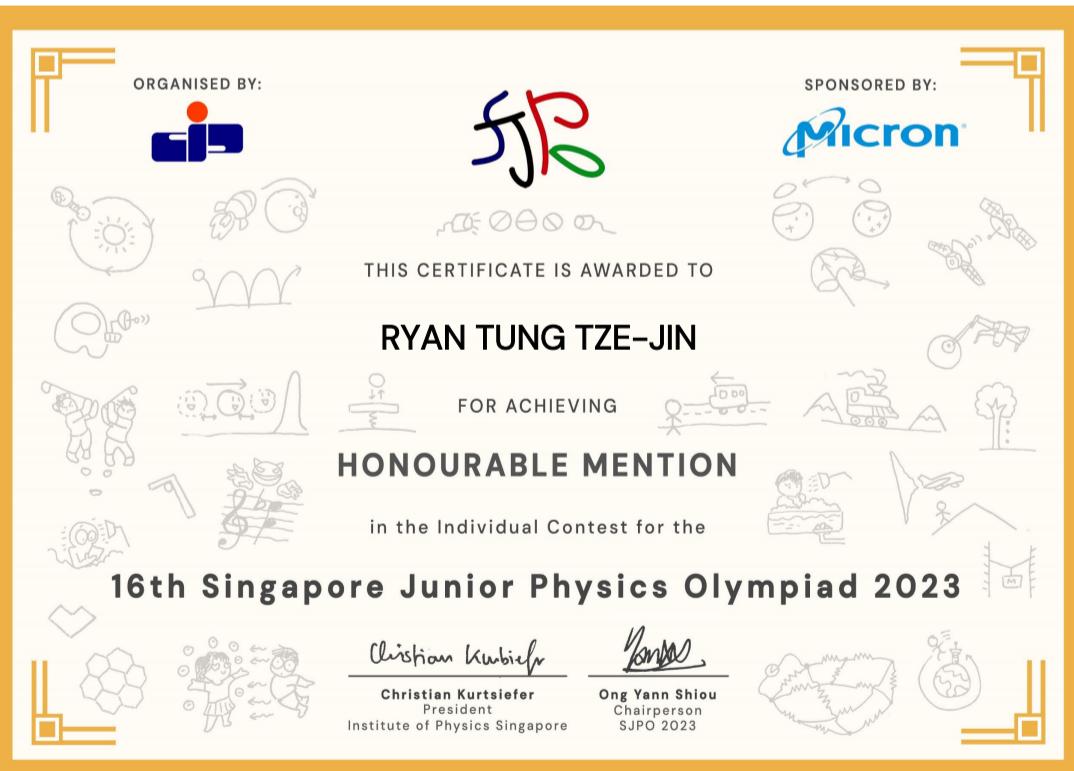
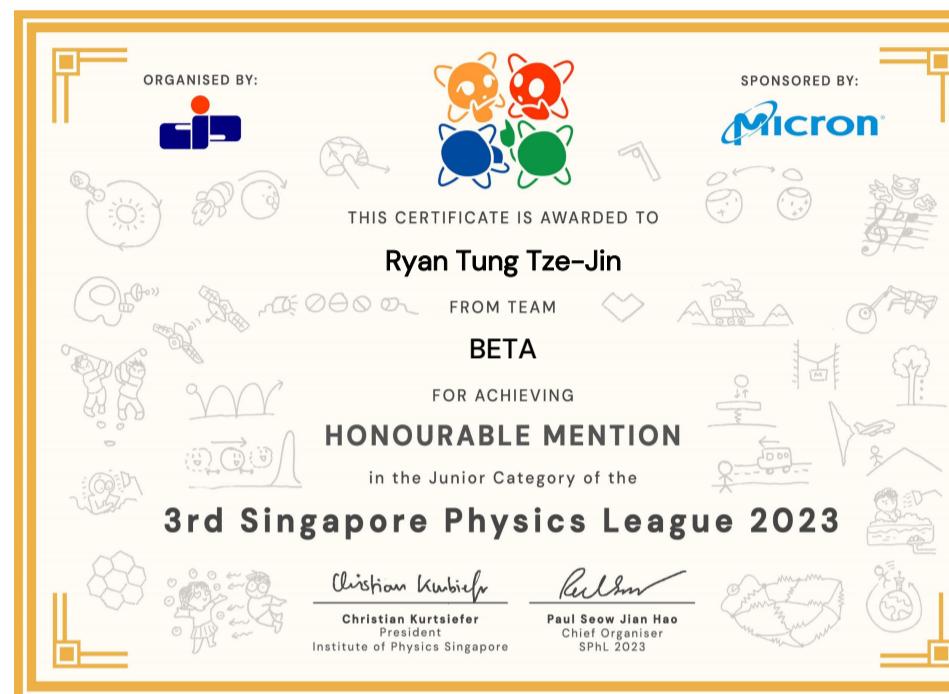




# Achievements

## STEM-related

Representing my school at the Singapore Junior Physics Olympiad as part of a team in 2023 was an enriching experience that deepened my understanding of physics concepts and principles. This competition challenged us to apply theoretical knowledge to solve practical problems. I developed critical thinking skills, teamwork abilities, and a passion for scientific inquiry through the Singapore Junior Physics Olympiad.



Participating in the Singapore Junior Physics Olympiad as an individual competitor in 2023 allowed me to test my knowledge and skills against peers in the field of physics. This competition pushed me to excel in understanding physics concepts, problem-solving abilities, and experimental techniques. Through the Singapore Junior Physics Olympiad, I gained confidence in my scientific abilities and a deeper appreciation for the wonders of the physical world.



# Achievements

## STEM-related

Receiving the Certificate of Participation for completing the Big-D Camp 2024 was a valuable recognition of my dedication to design thinking and innovation. The camp, organised collaboratively by the Singapore University of Technology and Design, Ngee Ann Polytechnic, and the School of Science and Technology, provided me with practical experience in problem-solving, creativity, and interdisciplinary collaboration. This certificate serves as a reminder of the skills and knowledge gained during the camp, which I can apply to future endeavours.





# Achievements

## STEM-related

Talk about electronics and electronics pt here





# Achievements

## STEM-related

Talk about computing and computing pt here





# Achievements

## STEM-related

Talk about IDC, SUTD, ARTC here





# Achievements

## STEM-related

For Innofest, my group developed a prototype of a tutorial

app for the elderly to ensure that whenever they download an app, they have a tutorial of how to use it, effectively bridging the gap between the elderly and technology.

I learnt how to use an Arduino on Tinkercad and developed a journal book on it.

I learnt how to develop a basic application using Swift Xcode



# Achievements

## Others

Serving as a Volunteer Ambassador during the RSAF55 Open House in 2023 was an honour and privilege. It was an opportunity to contribute to a significant national event while learning about the Republic of Singapore Air Force and their role in defending the country.

Completing the JA Economics for Success® Program in 2021 gave me valuable insights into economic principles, personal finance, and career readiness. This program equipped me with practical skills and knowledge to make informed decisions about my future education and career pathways. Through JA Economics for Success®, I developed financial literacy, entrepreneurship skills, and a greater understanding of the economic world around me.



Successfully completing the JA It's My Business!™ program in 2021 empowered me with the knowledge and skills needed to start and manage a business venture. This program introduced me to entrepreneurship concepts, business planning, and marketing strategies. Through JA It's My Business!™, I developed creativity, critical thinking, and an entrepreneurial mindset that will serve me well in future endeavours.



# Achievements

## Others

Participating in the Script It Right Chinese Radio Drama Script Writing Competition in 2021 provided me with a creative outlet to showcase my storytelling skills and cultural appreciation. This competition challenged me to craft compelling narratives and dialogue suitable for radio broadcast. Through Script It Right, I honed my writing abilities, cultural understanding, and appreciation for storytelling.



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Representing my school in the Historical Scene Investigation competition in 2022 and obtaining the Bronze Award was an enriching experience that deepened my understanding of the brutality and suffering of Singaporeans during the Japanese occupation. This local event challenged us to conduct meticulous historical research and analysis, focusing on one of the most harrowing periods in Singapore's history. We delved into primary sources, survivor testimonies, and historical documents to create a comprehensive presentation on the impact of the occupation. This competition honed our critical thinking and collaborative skills and fostered a profound appreciation for the resilience of the people who endured such hardship. Through this experience, I gained a deeper awareness of the historical events that shaped my nation's history and the importance of remembering and learning from the past.



# Achievements/Service learning

## Others

Serving as a Volunteer Ambassador during the RSAF55 Open House in 2023 was an honour and privilege. It was an opportunity to contribute to a significant national event while learning about the Republic of Singapore Air Force and their role in defending the country.



# Service Learning

Receiving the Certificate of Appreciation in 2022 for my dedicated service to Maris Stella Kindergarten's Family Day Fundraising event was a rewarding experience.

Contributing eight hours of my time on May 28th to support this event by supervising and facilitating the games allowed me to give back to the community and positively impact the kindergarteners and their families. This experience taught me the value of volunteerism, teamwork, and community engagement. Seeing the joy and excitement on the faces of the children and their families



While volunteering at Willing Hearts, a charity in Singapore, I dedicated 28 hours to supporting their essential operations. Working within the soup kitchen, I took part in packaging and delivering meals to locations across the island, making a meaningful impact on the daily lives of individuals in need. Through this experience, I gained a deeper understanding of the challenges faced by older adults, the disabled, low-income families, children from single-parent households, and others in our community. It was a privilege to contribute to such a vital cause.

One moment that particularly struck me was when I saw a pair of school shoes outside one of the houses we delivered to. As a student myself, I found this sight profoundly impactful. It made me reflect on the stark differences in our daily lives and children's struggles in less fortunate circumstances. Seeing those school shoes reminded me of the resilience and determination required to pursue education despite economic hardships. It deepened my empathy and commitment to supporting initiatives that assist those in need, reinforcing the importance of community.



# Service Learning

Receiving the Bronze Medal at the National Youth Achievement Award in 2023 was a significant recognition of my personal development and contributions to the community. This award symbolises my commitment to excellence, leadership, and service. It motivated me to continue making a positive impact and striving for more outstanding achievements in the future.



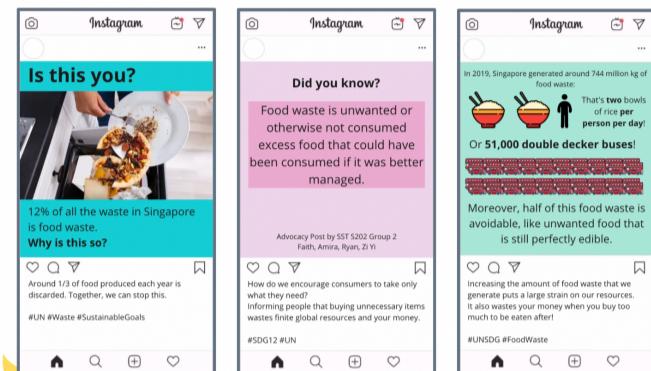


# Service Learning

Participating in the Sec 2 Learning Alliance Beyond Borders program in 2022 at Camberwell Girls Grammar School in Australia was an unforgettable experience. This international exchange program allowed me to immerse myself in a different educational and cultural environment, broadening my global perspective. Interacting with students from diverse backgrounds, I gained insights into various teaching methodologies and artistic practices. The program fostered cross-cultural understanding, adaptability, and a sense of global citizenship, inspiring me to embrace new experiences and perspectives in my educational journey. In fact, this was the experience that introduced me to Canva, which I used heavily during my role as the SYFC Vice-chairperson which involved media design.



Instagram Post



12

Participating in the BBS Learning Journey in 2023 offered me a firsthand look into the different world education systems and corporate cultures. This journey exposed me to diverse industries, business models, and career opportunities. Interactions with industry professionals and immersive experiences such as visiting the Gojek company gave me valuable insights into business operations, management strategies, and leadership principles.





# Conclusion

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Attending the School of Science and Technology, Singapore has been an incredibly enriching experience, providing me with valuable knowledge in design, electronics, computing, and entrepreneurship. I have had the privilege of making amazing friends and meeting fantastic teachers and mentors who have played a pivotal role in my personal and academic growth.

As I look forward to transitioning to Ngee Ann, I am eager to connect with the outstanding educators there and hopeful for the opportunity to build similarly strong relationships.