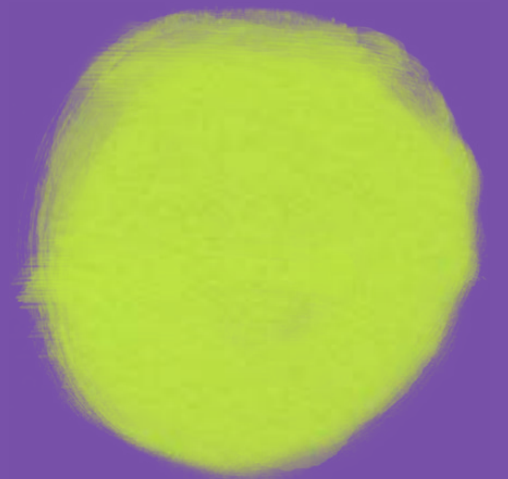# ICT TIMES

10TH EDITION

CONTENTS

Special Interest Groups

- CCA FIESTA
- AISIG
- AMPHIBI
- DOTSIG
- GENESIS
- GIT
- ICT SOCIETY
- NULLSEC
- ORION
- OVERFLOW
- PVSIG
- SCS

Scholarships / Outstanding students feature

- DSTA SCHOLARSHIP

ICT Society Organised / supported events & competitions

- INTER-SCHOOL GAMES 2022
- ICT SOCIETY INVESTITURE
- SPORTS & DANCE CAMP
- FOP 2022
- SILVER CLICK
- DIGITAL CLINIC
- DANCE HEIST
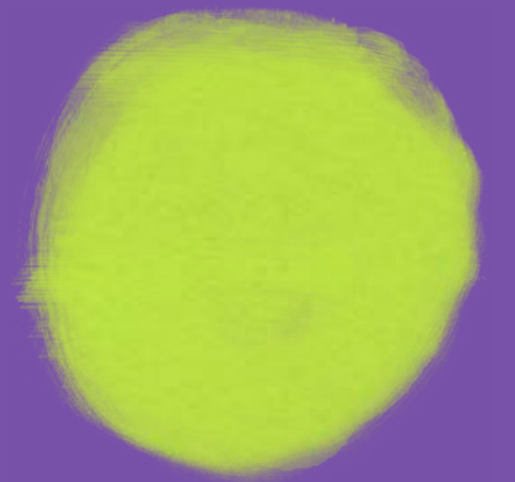- MOVIE NIGHT
- NP CARES WALK FIESTA

Upcoming Events

- RED CAMP
- OPEN HOUSE
- SIG UPCOMING EVENTS

SIG
ACTIVITIES

CCA FIESTA <<<<<

ICT CCA Fiesta was held at The Byte® in April 2022 to allow incoming Year 1 students to know more about the student development opportunities in School of ICT.

The Year 1 students were treated to a myriad of exciting displays and showcases, at beautifully decorated booths of the 10 Special Interest Groups (SIGs) in ICT. They also had the opportunity to chat with the student leaders of the SIGs to find out more about student life in ICT and activities in the SIGs, while being guided around and facilitated by GLs from ICT Society.

Other than being an eye-opener for new students, the event was a precious opportunity for current SIG members and student excos to interact, know each other better and to work as a team. The ICT CCA Fiesta was executed successfully, giving everyone an eventful and meaningful experience!
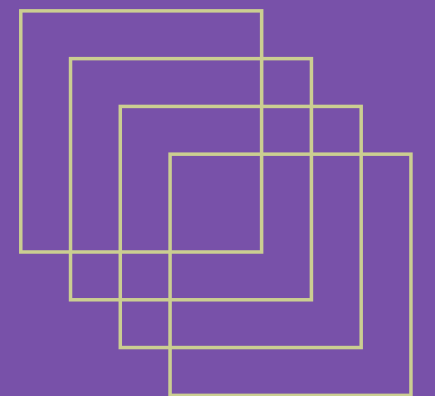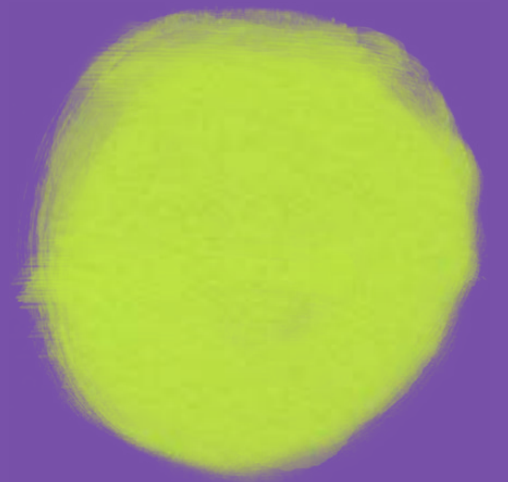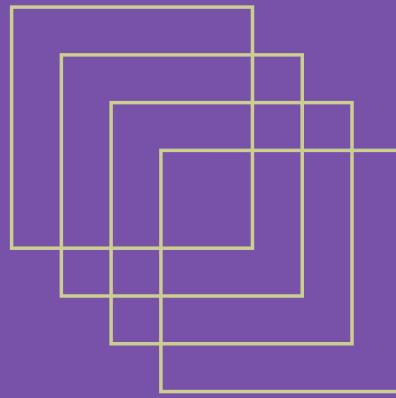
CCA FIESTA <<<<
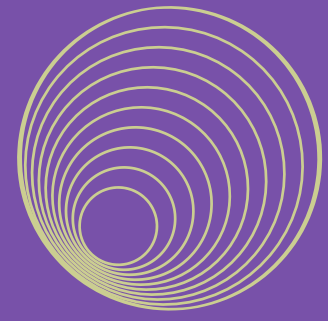
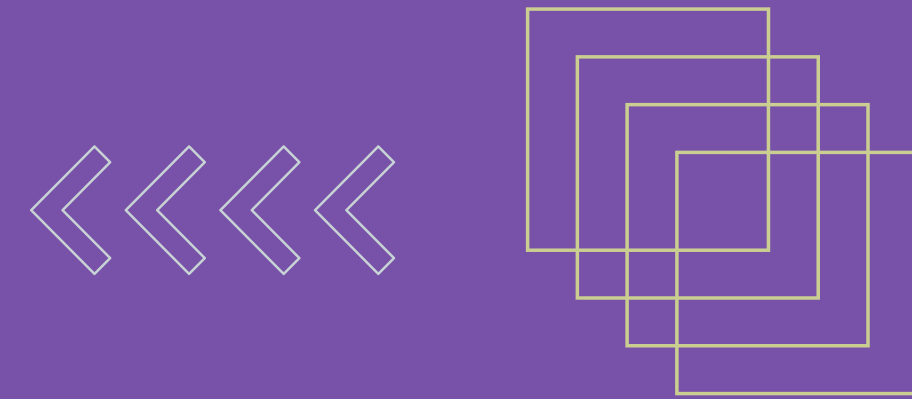# AISIG

INTRODUCTION SESSION <<<<

AISIG held a bonding session during the term break to welcome the Year 1s who had just joined our special interest group. Participants were introduced to the history of AISIG which includes all the events that were hosted.

After which, participants gave a self-introduction of themselves before being split into several breakout rooms to play various ice-breakers. This helped participants to loosen up and understand each other more, and opened up opportunities for collaboration and networking in the future.

The event ended with a Kahoot! game about AISIG. Through the game, participants were able to learn more about AI and AISIG. From this bonding session, students get to know and connect with each other that will help to set the foundation for future events.

WORKSHOPS BY AISIG & NP

AISIG and AI Singapore Student User Group (NP AI-SUG) collaborated to host a series of workshops on AI and Data Science, which participants will learn more about Python, Data analysis with Microsoft Power BI and Machine Learning.

The first workshop, Python & Anaconda, caters to beginners who have little background on Python. It provides lectures and simple practical for participant to practice.

The second workshop, Data Analysis with Power BI, caters to both beginners and intermediates as it covers the basic functions of Power BI and also the more advanced functions such as Forecasting and Data Analysis Expressions (DAX) that highlight crucial data points and sort columns.

WORKSHOPS BY AISIG & NP
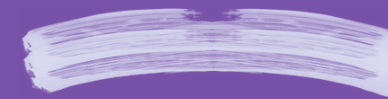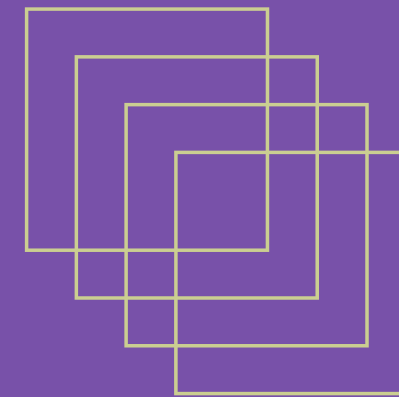
The second workshop, Data Analysis with Power BI, caters to both beginners and intermediates as it covers the basic functions of Power BI and also the more advanced functions such as Forecasting and Data Analysis Expressions (DAX) that highlight crucial data points and sort columns.

The third workshop, Machine Learning, caters more towards participants with intermediate experience in Python. It covers some machine learning models such as decision trees and random forest. Participants learned how to implement the models using Python libraries.

Through these 3 workshops, participants without IT background were able to gain awareness about AI and Data Science. In addition, participants with IT background were able to learn new things not in their curriculum, and thus this further deepened their understanding in these topics.


NP-AI SUG X AISIG

INTRO TO POWERBI

We aim to showcase more techniques and functions available in Microsoft PowerBI, for example useful and practical Data Analysis Expressions (DAX) and Calculated Columns functions.

By building onto what has been covered in syllabus, this workshop will provide you more methods and techniques at your disposal when creating better dashboards.
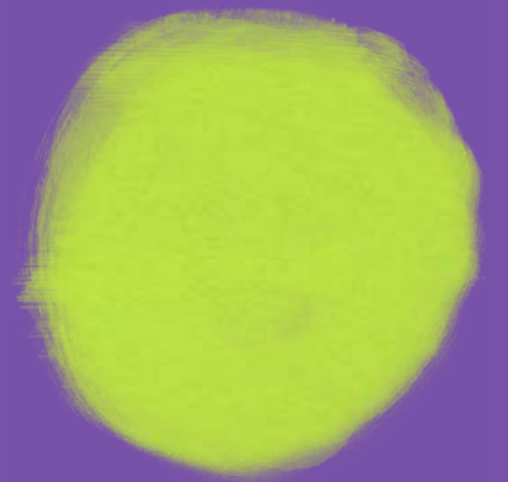
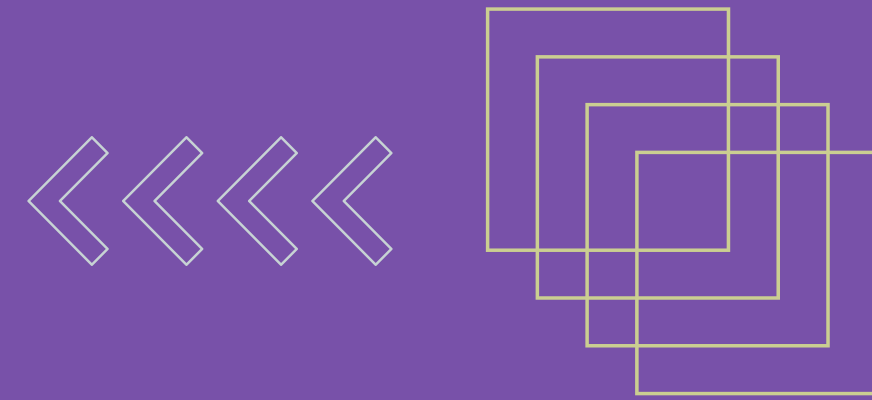14th Sept
2:00PM - 3:30PM

SCAN ME
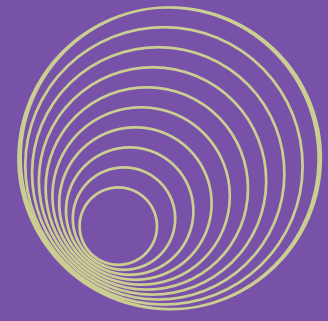
AMPHIBI

GPU OVER/UNDERCLOCKING WORKSHOP

The event was held in school during the school holidays on 13th September 2022. With everyone in Amphibi Studios gathered and participated in the workshop.

Members of Amphibi Studios learnt about Overclocking/Underclocking the GPU. It allowed students to understand more about gaming laptops and how owners of gaming laptops can customize settings to improve their performance.

It was a fun and interesting workshop overall. Everyone had the opportunity to tinker with their devices and get hands-on experience on tweaking of their laptops' performance.
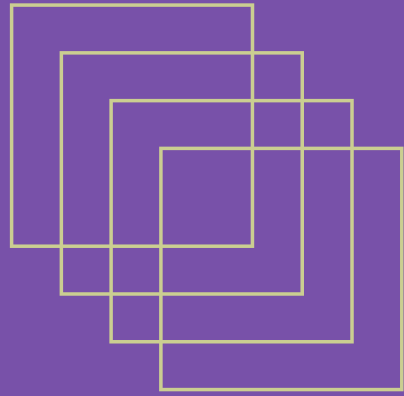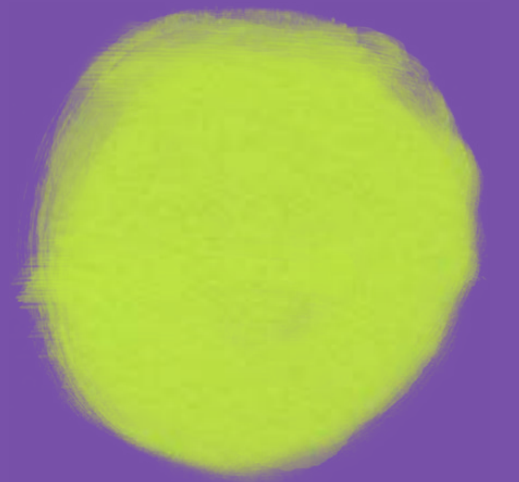
# DOTSIG

PROJECT GENESIS <<<<

1. Project Genesis: Desert, 10th May 2022 Microsoft Teams

With Earth's hottest terrains as the day's theme, our members dived into their imaginations and showcased their ideas with deserts in mind.

2. Project Genesis: Bird Paradise, 24th May 2022 Microsoft Teams

It's a bird! It's a plane! Wait no, it's a bird paradise. Theme of feathery friends, EXCO members and members of TheDot drew birds of various types, some that exist in real life, others out of pure imagination, as part of their world building.
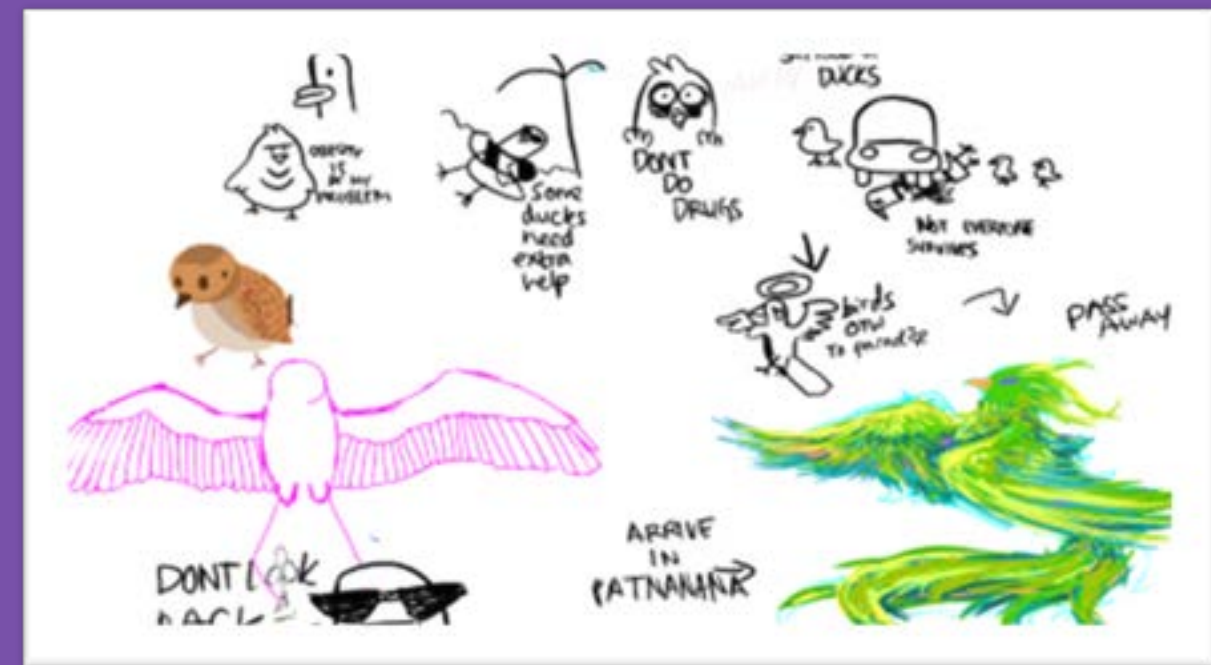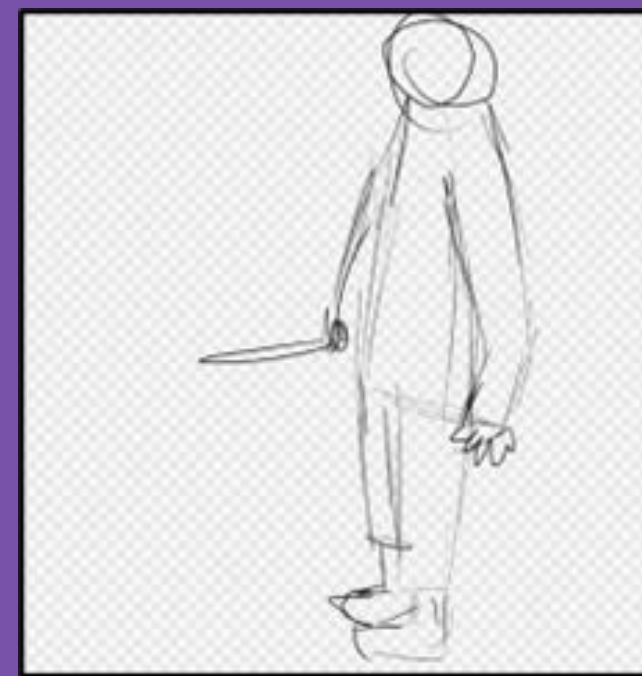
CASUAL DRAWING <<<<

Taking a break from Project Genesis, the members indulged themselves in a session of casual drawing, making use of images from DailySketch as reference.
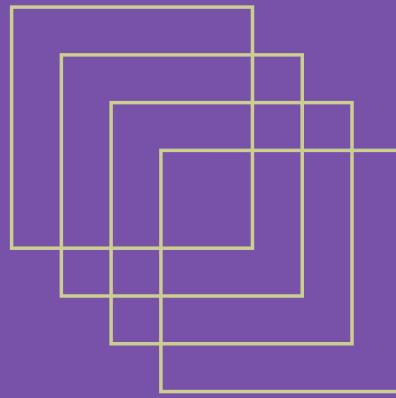
By Ng Shijun Jess

By Sia Hao Jun

By Ang Xuan Xi

By Ng Shijun Jess

NDP 2022 COLLABORATION <<<<

In collaboration with NDP Pack 22 Team, Dot SIG helmed a project for NDP 22 bags and fans. 24 artworks were digitized and enhanced for printing on NDP bags and fans.

As tokens of appreciation, the NP Digital Artist Team received the good-looking bags and Certificate of Participation. The team was also invited to attend an exhibition displaying the 24 artworks, "Our Gift to Singapore by Artists with Special Needs" at Opera Gallery Ion Orchard on 5 August 2022 graced by GOH President Halimah Yacob. IM Diploma Course Chair, Mr. Melvin Tan, and 2 representatives of NP Digital Artists, Charlene and Rovee, attended the exhibition. The whole experience of the collaboration was awesome
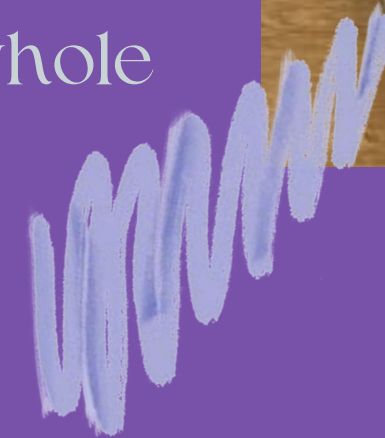
NDP 2022 COLLABORATION «««
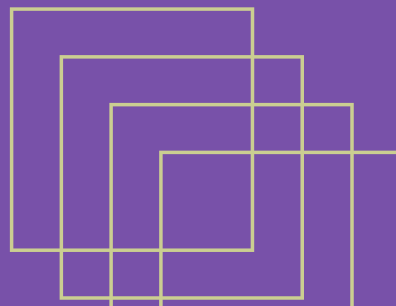
At the exhibition 'Our Gift to Singapore by Artists with Special Needs': GOH President Halimah Yacob, NP Digital Artists, Rovee and Charlene, and IM Course Chair, Mr. Melvin Tan.
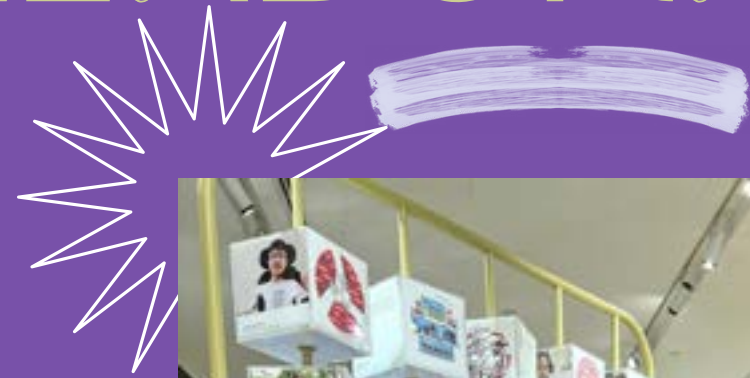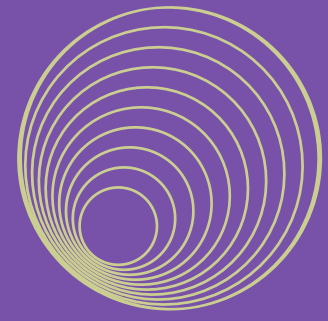

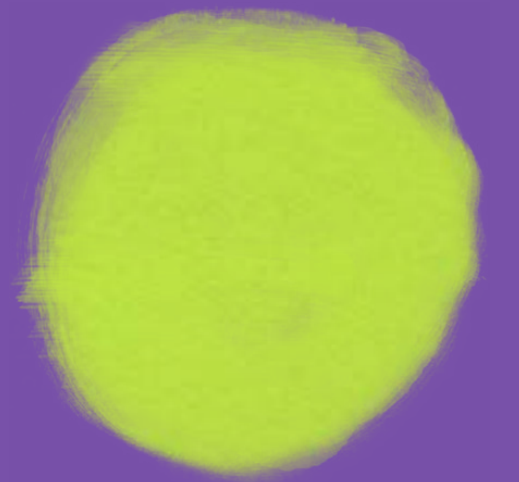At the exhibition 'Our Gift to Singapore by Artists with Special Needs': Charlene, posing with a young artist.

At the exhibition 'Our Gift to Singapore by Artists with Special Needs': Rovee, posing with the beautiful artwork.

GENESIS
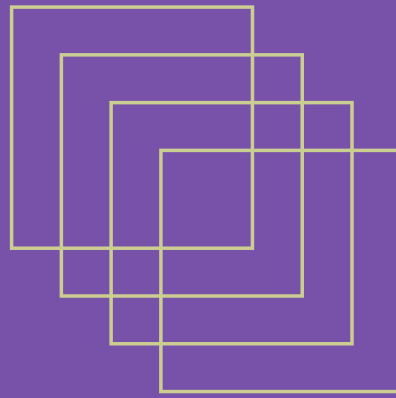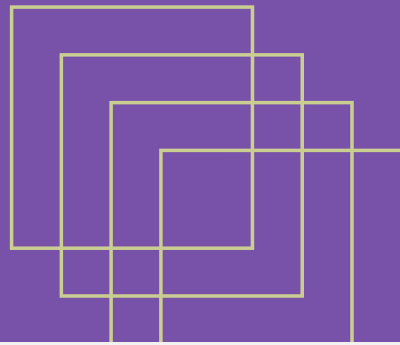
INNOVATESECURE <<<<

This yearly event was successfully organized by GENESIS SIG in August 2022. It was conducted online on the Teams platform. A total of 28 teams took part in the competition. Seniors were engaged as judges in the preliminary round and two lecturers were invited to judge the six finalists.

STUDENT STAR TUPS <<<<

Enterprising on their capstone project, four students founded the SingLion Software Bugs Clinic LLB on 28th August 2022. Their bugs bounty site is currently in the testing phase.

https://singlion-sbc.hannah-groups.com

SingLion Software Bugs Clinic

Asia's best bugs bounty specialist ..

Visit our bugs bounty site ...

enquiry enquiry-singlion-sbc@hannah-groups.com
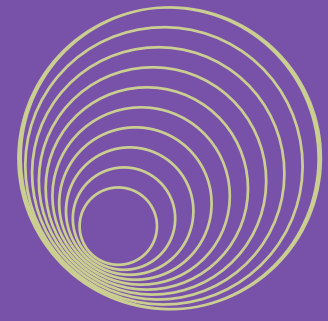
GIRLS IN TECH

LAUNCH OF GIT AND MOU «««
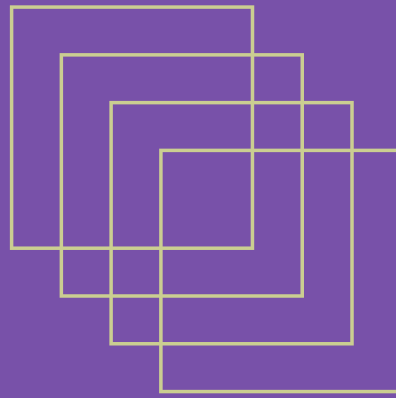
The Singapore Women in Tech (SG WIT), IMDA and the five polytechnics signed a Memorandum of Understanding (MOU) at the launch of the cross-polytechnic Girls in Tech (GIT) committee on 13 May 2022. The signing of the MOU was witnessed by Senior Minister of State for Communications and Information, Dr Janil Puthucheary and Minister of State for Communications and Information, Mr Tan Kiat How. Prior to the MOU signing, there was an ideation workshop with the GIT committee for a 2-week hackathon in June organised by NCS and vLookup.

Key activities for GIT would be invitations to company visits, tech talks and sharing sessions by female tech leaders. This aims to inspire the girls to seize the available opportunities and overcome challenges in different tech job roles.

LOGICALIS OFFICE TOUR <<<<
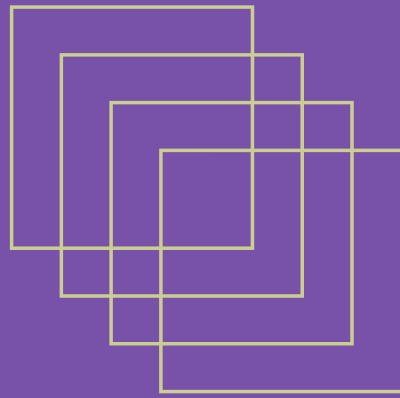
Logicalis invited our girls to an office tour on 22 Apr 2022 to hear about the experiences of current interns and to interact with their IT professionals via a Q&A session. With the positive feedback, a second Logicalis Tour was conducted on 15 Sep 2022 and it was simply great as another set of girls got the chance to learn more about cybersecurity and insights from Logicalis IT professionals.

WOMEN IN TECHNOLOGY <<<<<

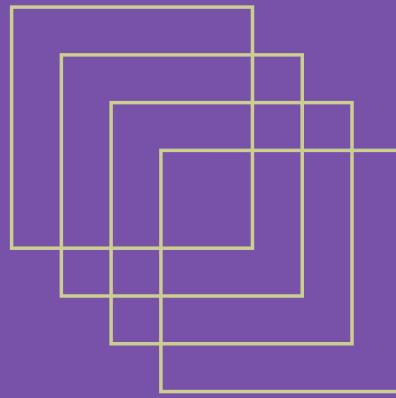The Bank of America's Women in Technology hosted 16 of our students to visit their office to learn more about their Technology and Operations from the BOA staff.

During this event, GIT members, together with students from the Banking and Finance Diploma of Singapore Polytechnic get to join in the fun of an Operations game where students work in groups to fulfill pizza orders for customers. From playing of this game, the students learnt how the different departments work in the bank. The second half of the tour includes an insight of BOA's cybersecurity operations room with live action.

Overall, the students found it fascinating to learn how the BOA 'hackers' work at the bank to protect the bank's cybersecurity daily.

AWS OFFICE TOUR <<<<
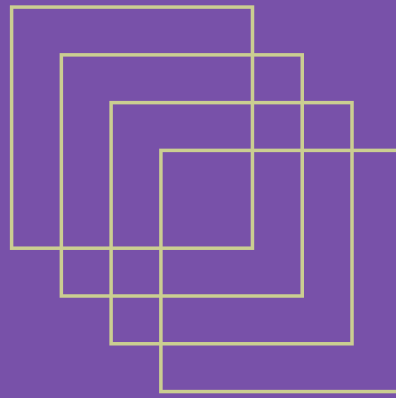
Amazon Web Services (AWS) organised a diversity in Tech-related event targeting female students. The girls learnt about new employment opportunities in sectors like technology and cybersecurity, as well as AWS' efforts to nurture a safe digital space for society. A workshop was conducted on the use of AWS in the Cloud.
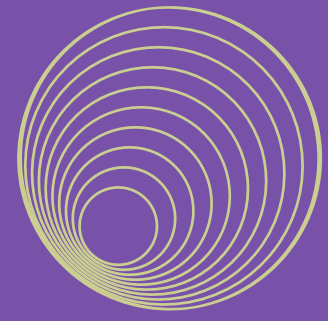
NULLSEC
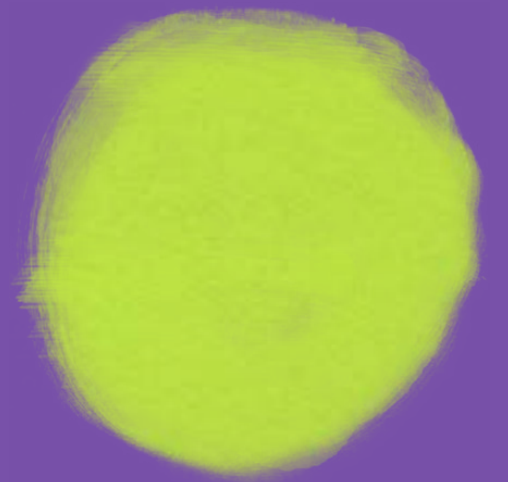
WELCOME SESSION <<<<
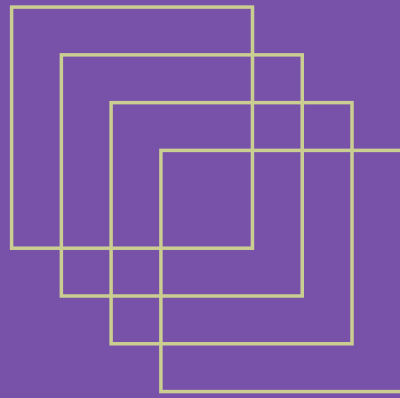
To kick start the school year and welcome new members into the SIG, we hosted a welcome party to receive all our new members. During the event, all our members had the chance to meet and get to know the rest of the SIG through icebreaker activities and a homemade Capture The Flag (CTF)!

YCEP <<<<

Youth Cyber Exploration Programme (YCEP), also known as Hack N' Flag, is an annual flagship event headed and organized by Nullsec SIG in cooperation with Cyber Security Agency (CSA). This 3-day boot camp aims to spark interest in cybersecurity amongst Secondary School students.

The camp marked our first on-site YCEP, and it kicked off with 2 days of mini-workshops. These workshops broadly covered the basic skills, tools, and knowledge one would need to get a head start in the cyber-sec field. The topics this year included a primer on Python, Cryptography, Linux, and Digital Forensics.
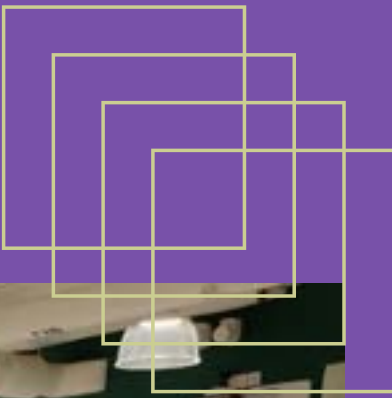
YCEP <<<<<

On the third day, participants took part in a jeopardy-styled Capture-the-Flag (CTF) event, with challenges crafted by the NullSec team itself. The participants rose up to the challenge to solve as many challenges as possible within 5 hours.

The result was an exhilarating day where teams fought relentlessly to attain as many points as possible. At the end of the day, our budding hackers completed the Bootcamp, bringing back home with them, memories of this eventful experience.

CDDC ≪≪≪≪

CDDC was one of the major competitions that our members participated in. It was a 48-hour team Jeopardy-style Capture-The-Flag competition from 21 to 23 June, with a 4-week comprehensive online training program. Organized by DSTA, this national event was open to all students (we are in the tertiary category).

Many Nullsec members signed up for the event and had outstanding results, with one of our teams even reaching the top 10! The team being:

SUSSYLAND (Team – Position No 9) Year 2
· Cyrus Tan Rui Xuan - NP
· Farrell Fun Gao Wei - NP
· Eugenio Bautista Manansala - NP
· Qin Guan - NP
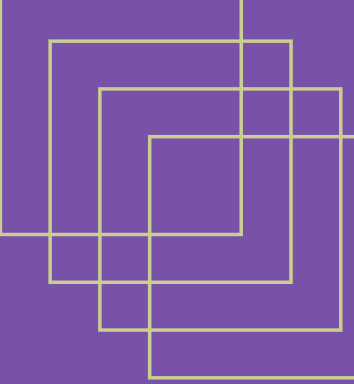
KOREAN DELEGATE SHARING
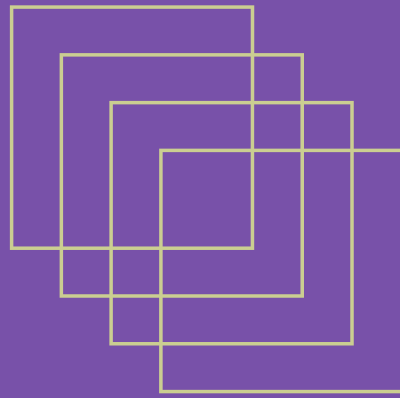
During the semester break, Korean delegates who are lecturers in field of IT visited Ngee Ann Polytechnic's School of ICT to learn more of what the school is about.

During their time here, NullSec conducted a short sharing session on Mobile Remote Administration Tool (RAT) and demonstrated on how a hacker can easily perform malicious activity on a person's phone without them realizing it.

NULLSEC CTF MONTH <<<<

Another addition to our highlights of the year is our homemade NullSec CTF Month, where we saw our member's and even other non-member participants' talents shine when they applied their newfound knowledge and understanding of concepts from our workshops in our minion-themed CTF.
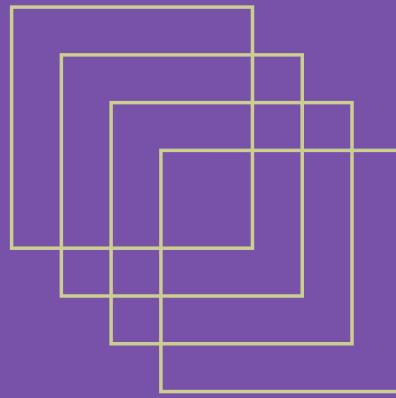
Those that joined us during this competition, walked away with a new set of tools and skillsets to tackle future CTF competitions. The purpose of the CTF is to allow the participants to develop and learn new skills related to CTF and to practice the learned skills over various NullSec sessions.
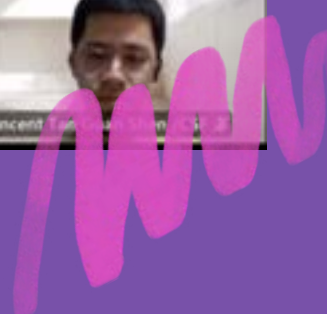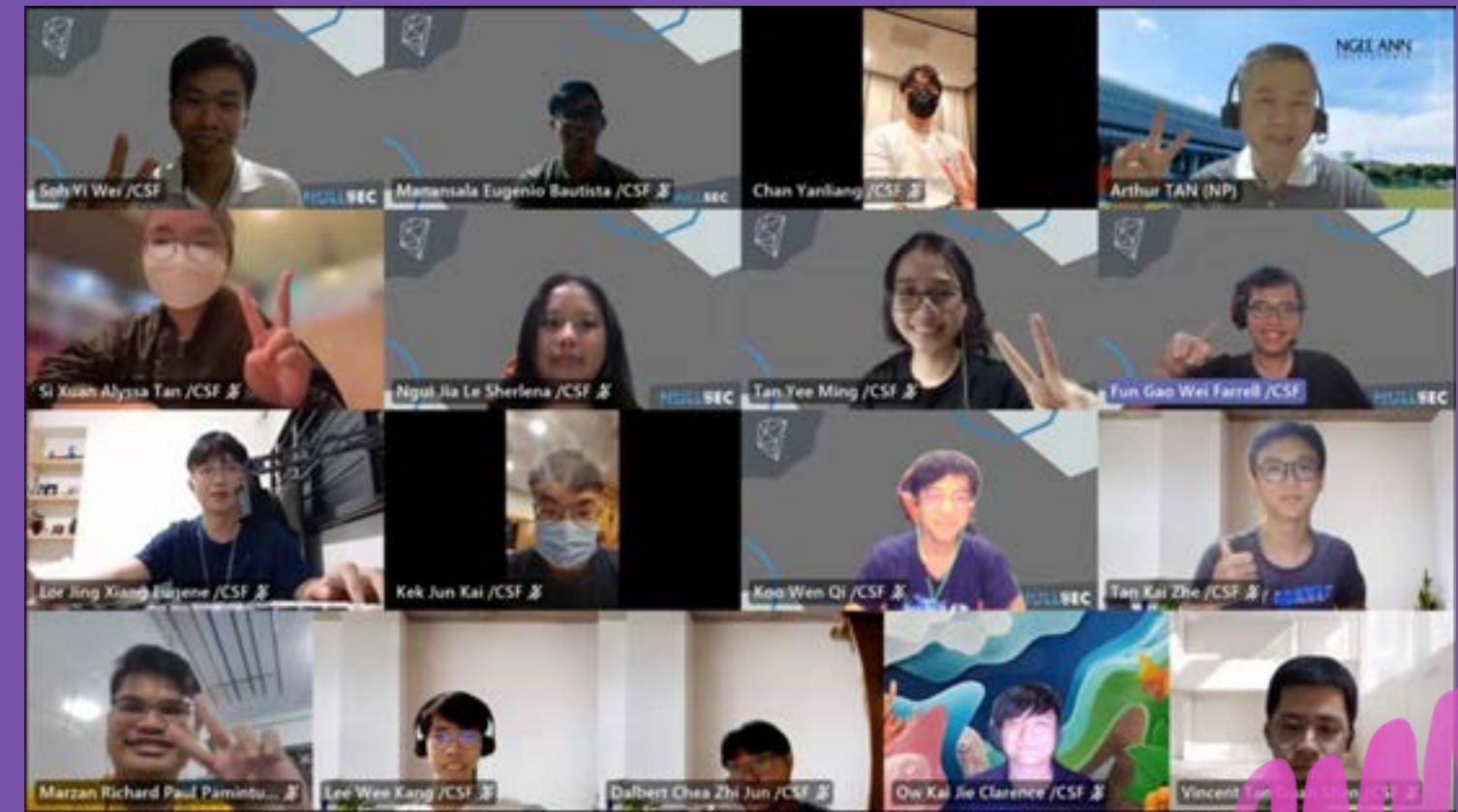
EXCO BONDING <<<<<
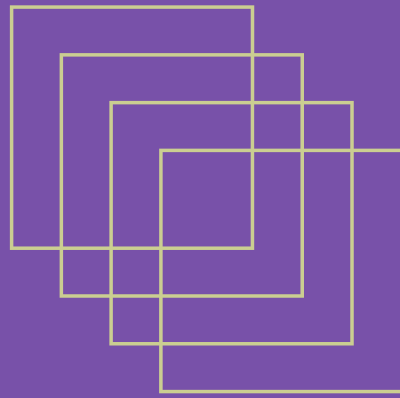
To facilitate stronger bonding among the NullSec EXCO members, we organised our first F2F BBQ bonding activity. We had heart to heart talks with our mentor, and memorable memories that brought the team closer.

WORKSHOPS <<<<

NullSec hosts CTF-related workshops of varying topics that are in line with aspirations to engage our members. Workshops are held once every 2-3 weeks to maintain quality and interactivity by hosting on-site sessions.

Our CTF-related workshops covered areas such as Web, Cryptography, Digital Forensics, and Reverse engineering which are all useful for CTF competitions.
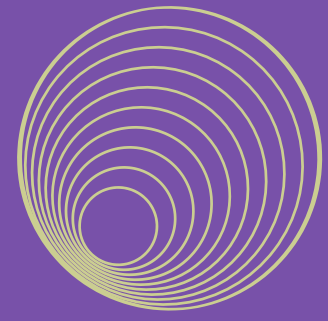
ORION

ORION ICT TOUR <<<<

In June, ORION organised a tour opened to the public at ICT Block showcasing the different facilities that the levels have catered to the various diplomas. Participants also attended a course presentation conducted by the Director of School of ICT, Patrice Choong, introducing the diplomas that ICT has to offer.

STRITWISE <<<<<

With the ease of COVID restrictions, ORION successfully executed a 3-day-2-night Hybrid StrITwise® competition, focused on training our participants on creating dashboards and visualization through data manipulation, using the leading CRM platform from Salesforce. A total of 110 secondary school students from 12 secondary schools competed against each other, to create the most insightful dashboard.
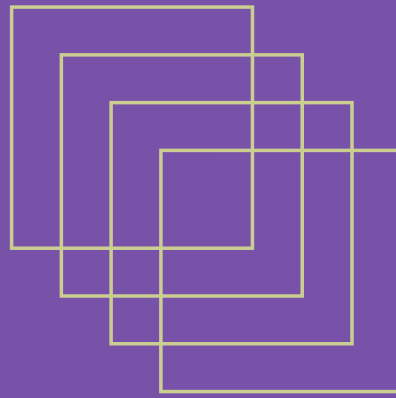
Prior to the competition, our student leaders spent months learning various technologies of the Salesforce platform including Apex, Aura Components as well as Einstein Bots. Thereafter, they trained our student volunteers to equip them with the skills to guide their participants.The competition was successfully executed and received favourable feedback from the school teachers and participants.

ORION BONDING SESSION <<<<

In October, ORION held a barbeque party in celebration of the success of StrITwise. Our members bonded with one another over tabletop board games, party games, and delicious food grilled up over the fiery barbecue pit. This bonding activity helped members forge new friendships and provided the opportunity for the leaders to discuss their plans for ORION.
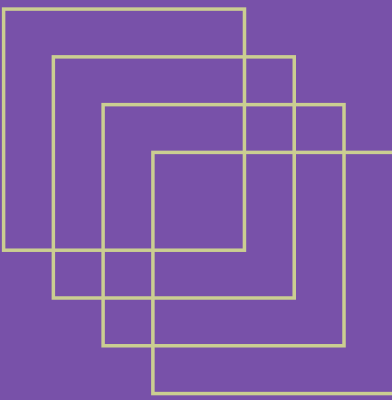
OVERFLOW

OVERFLOW INTRODUCTION <<<<
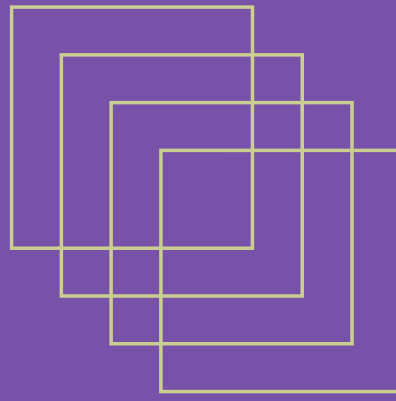
With the start of a new year, Overflow has welcomed many new members. Beyond the prospect of picking up and teaching new useful tech skills, Overflow also believes in fostering stronger bonds within the interest group.
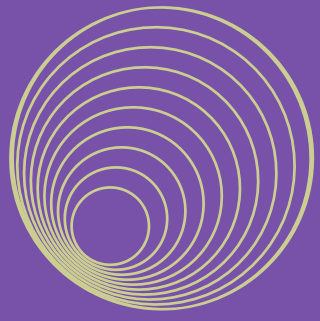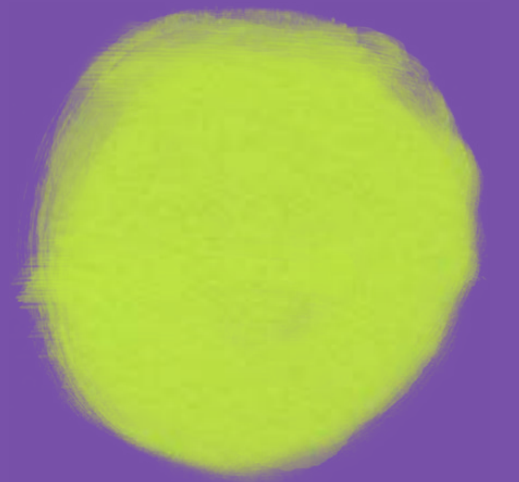
As such, to welcome the new Overflowers, Overflow had planned a day of fun to introduce the new Overflowers to one another and the EXCO, through the many ice breakers planned for the day.

Overflow also plans many bonding sessions throughout the semester. Notably, during the Overflow's bootcamps (to be covered later), Overflow had planned many challenging games and ice breakers to further forge close relations amongst their members.

FULLSTACK BOOTCAMP <<<<
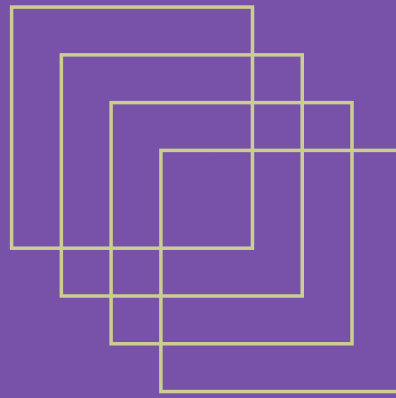
Over the June term break, Overflowers were invited to a 3-day bootcamp to learn how to create full stack web applications to further broaden their horizon during the short break.

The 3-day bootcamp engaged Overflowers on how to develop front end webpages through Vite with Vue, employing languages such as HTML, CSS and JavaScript.

Furthermore, the bootcamp also covered on how to incorporate both authentication and database services using Firebase.

At the end of the bootcamp, Overflowers learnt how to deploy their webpages with the use of Netlify, followed by a showcase of their own personal webpages created in the bootcamp.

ALGORITHMS BOOTCAMP <<<<
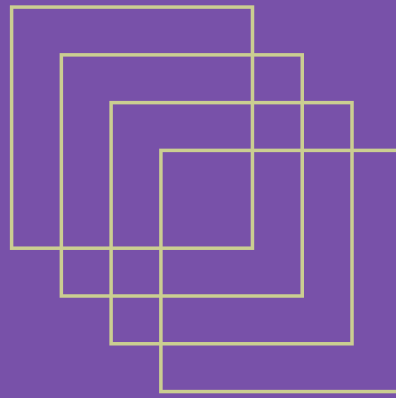
During the semester break, Overflow hosted a data structures and algorithms bootcamp to not only introduce Overflowers on the various concepts revolving efficient handling of data, but also to better prepare interested students for the upcoming PIOI, involving competitive programming.

The 3-day bootcamp gave curious Overflowers the opportunity to learn more about Object -Oriented Programming, Sorting Algorithms and several useful Data Structures.

Towards the end of the bootcamp, Overflow introduced Advent of Code, a set of computer programming challenges, to allow attendees to put their newfound knowledge to the test and challenge themselves.

OVERFLOW WORKSHOPS <<<<
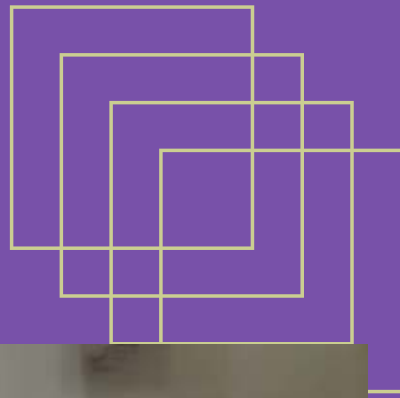
As the community Safe Management Measures were eased, Overflowers were once again able to enjoy face-to-face Overflow sessions, covering various topics ranging from having fun from creating a Discord bot, to advanced topics such as Software Design & Architecture this semester.

Overflow workshops, usually run by students, gave opportunities to Overflowers not only to learn new tech skills, but also to learn how to engage, and hone their confidence and presentation skills, through conducting workshops on topics they are passionate in!

COLLABORATIONS WITH SIGS <<<<
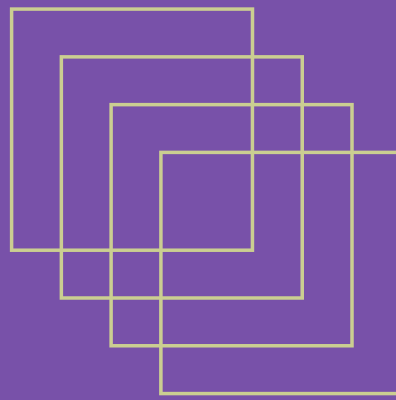
Overflow often collaborated with other special interest groups as well, such as NullSec SIG, Engineering Science SIG (EIG) to conduct joint workshops and work on projects together. This allows exchange of knowledge with each other, with the common aim to bring the benefits of various areas of technology, multi-disciplinary knowledge to an even greater part of the student community.

This also gave opportunity to students to forge friendships and contacts beyond their SIGs and courses.

EXTERNAL VISITS <<<<
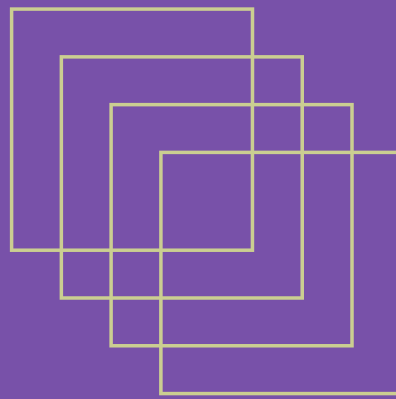
Overflow would occasionally organize external visits, such as to developers meetups, hackathons, external workshops. In this April semester, Overflowers participated in the 224th edition of Friday Hacks, organized by NUS Hackers. This event featured Evan You, creator of Vue and Vite, who shared about his journey as an indie open-source software developer. The Overflowers had a great time networking with Evan, as well as other folks attending the event!
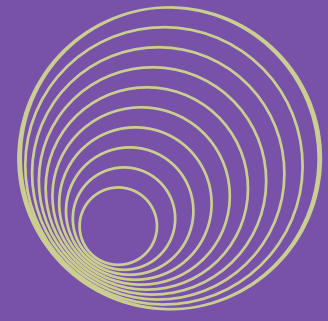
PVSIG
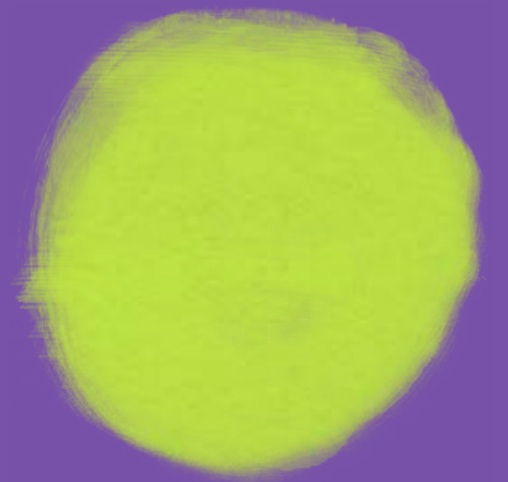
PVSIG SHOWCASE <<<<
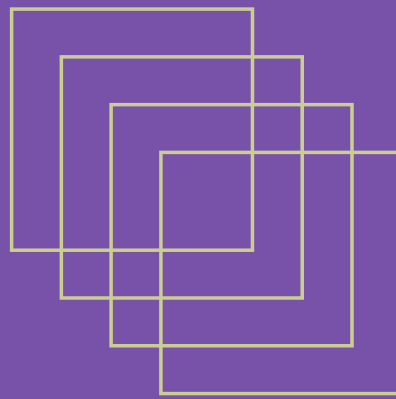
Arab Street Photography PVSIG Shutterbugs Get-together -October

To celebrate post-pandemic 2022, PVSIG held an Arab Street Photography Session for all its members on Thursday, 13th October 2022. Meeting up at Bugis MRT on a fine afternoon to discover a rich corner of Singapore. This first face-to-face get-together which hasn't happened in a long while ended after the magic hour, with many photos and videos of the day
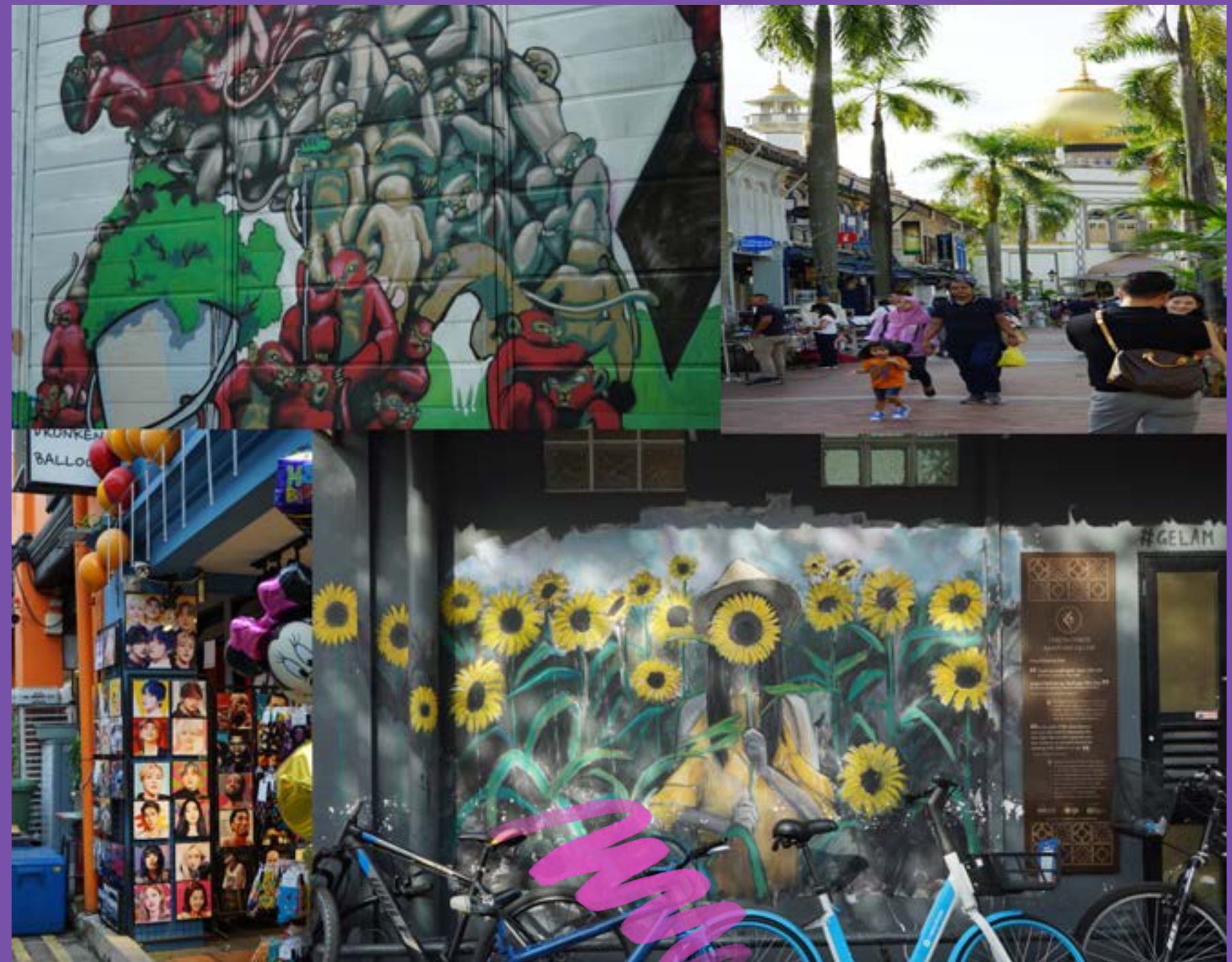
PVSIG SHOWCASE <<<<

NP Cares Event in GradFest2023 – 20 October

SCS
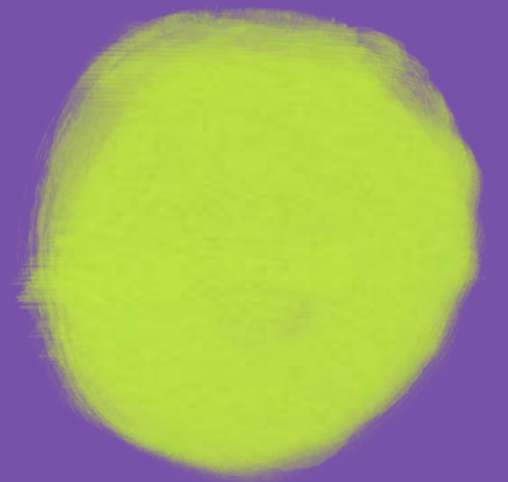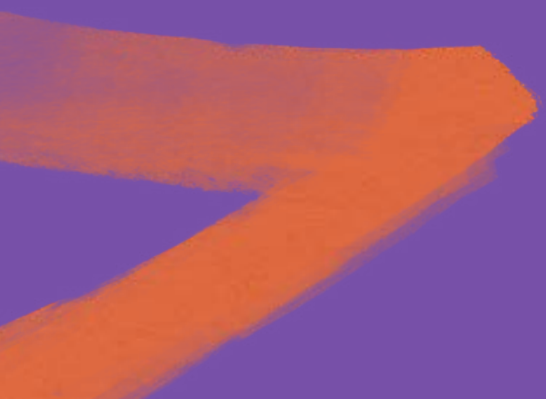
SCS RECAP <<<<<
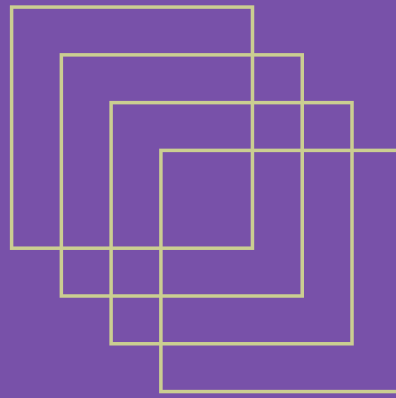
1. As part of the SCS Skills Future Industry Lecture Series, a speaker was sourced through SCS to organize a guest lecture on 'A Day in the Life of a UX Designer/Researcher' (July 2022) by Emily Cheung, Senior Product Designer at Property Guru. Students from Designing User Experience(DUX) module in Diploma in Immersive Media course attended the talk. There was good feedback from students that they understood steps in the design process. Some of the key take-aways from the attendees include

- Various stages of design process
- Agile Development is useful and highly applicable.
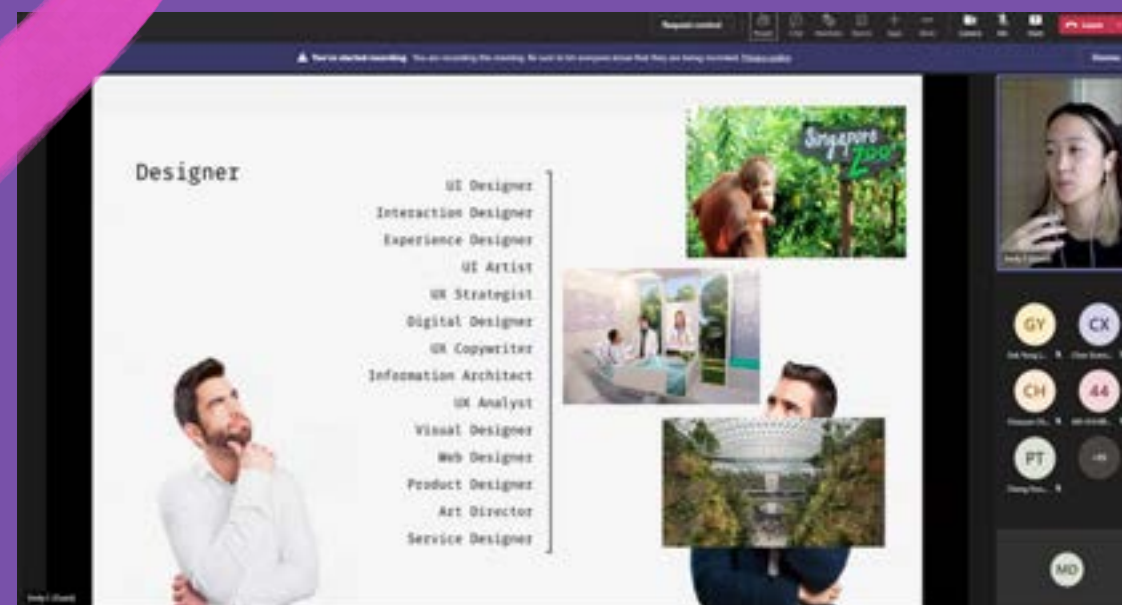
SCHOLARSHIPS / OUTSTANDING STUDENTS FEATURE
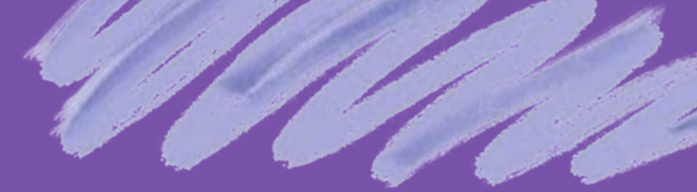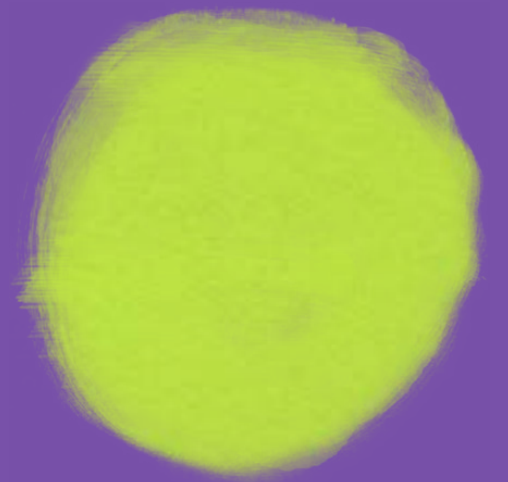
DSTA SCHOLARSHIP

‘I really appreciate the opportunities and exposure that have led me to take up the DSTA Scholarship. I was first introduced to the field of artificial intelligence at Ngee Ann Polytechnic, gaining insights into machine learning models and natural language processing through course modules such as predictive analytics and deep learning. With an interest in tech, I took up the DSTA Polytechnic Scholarship and did an internship at DSTA's Digital Hub. I worked on a project for automatic speech recognition systems to process large volumes of data more efficiently for soldier training and was able to apply the knowledge learnt at school to the project. It was an enriching experience under the guidance of my mentors, and I also learnt first-hand about the various applications of technology and how my skillsets could contribute to our nation's defence.

Being able to continue exploring different areas of technology through the DSTA Scholarship thus felt like the right choice for me and I am excited to embark on the next phase of my journey. At the same time, I am grateful for my experiences in Ngee Ann Polytechnic, as well as the support of my mentors and peers that have gotten me this far and will continue to keep me going! Apply for the DSTA Scholarship now if what I shared resonates with you!'

— Angel Lee Xuan Xuan
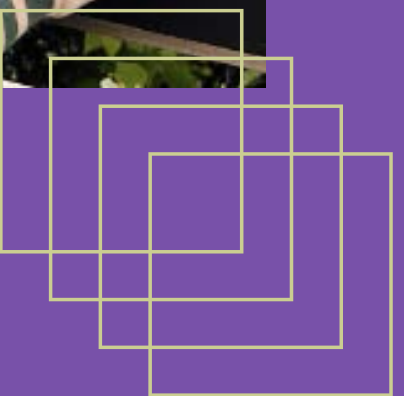
ORGANISED / SUPPORTED EVENTS & COMPETITIONS

20 - 29 July 2022

ISG 2022 «««

After the covid hiatus, Inter-School Games (ISG) could finally resume this year from the 20th to 29th of July 2022. Our students and staff took a bold step to represent ICT in this year's ISG, by sending players to battle it out with students from other faculties. We sent a team for each of the sports offered this year - volleyball, captains ball, bowling, 7-aside, badminton and floorball. Through the games played, not only did our teams have loads of fun, they also nurtured sportsmanship and strengthened the bond amongst them.

12-14 April 2022

FOP 2022 《《《《

CSOP is a yearly event organised by ICT Society, aimed at inducting and welcoming the Y1 freshman into the School of ICT. Student leaders comprising of Y2 and Y3 students within the school are tasked with envisioning and executing the event.

Through this event, the freshmen participated in games and activities aimed at forging friendships between their classmates

ICT SOCIETY INVESTITURE <<<<

The ICT Society Investiture is an annual ceremony that welcomes the new members of the ICT Society and the upcoming batch of Special Interest Group (SIG) EXCOs, as well as honour the contributions of the Year 3s. ICT Investiture 2022 was conducted virtually on MS Teams on August 18th 4.30pm-5.30pm.

The theme for this year was Nymphaeaceae, which refers to the family of water lilies, a symbol of unity and finding peace and balance and a transitioning of life.

The event featured the director's speech, outgoing president's speech, photo taking for the ICT Society committee and various SIG EXCO group, and finally, the ICT Pledge.
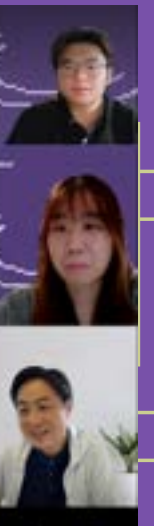
SPORTS AND DANCE CAMP

Sports & Dance Camp is a 2-day event, where students come together and have friendly matches! The students played a variety of games, such as bowling, captains ball, badminton, and others!

Students represented each of their 5 clans and gave it their all in the friendly matches. A dance was held after the matches, to tie up the event and let everyone loosen up.

It was refreshing and incredible to see everyone united in this post-covid times. Come, up your game and join us in the next ICT games.

20 & 27 September 2022

SILVER CLICK ⟨⟨⟨⟨

The Silver Click! by Radin Mas Community Club is an online programme for the elderly to keep them digitally updated. During the programme, our ICTians taught the elderly to use useful applications like Duolingo, Lazada, and Uniqlo. The experience was truly meaningful as it helped to improve our leadership and communication skills as well as bring more compassion to our student's lives.
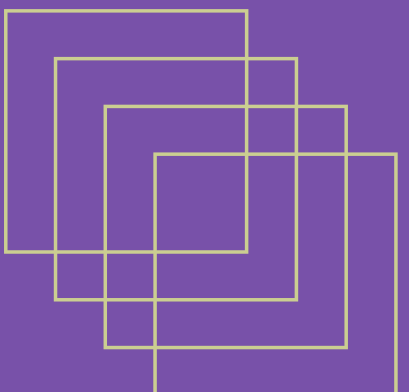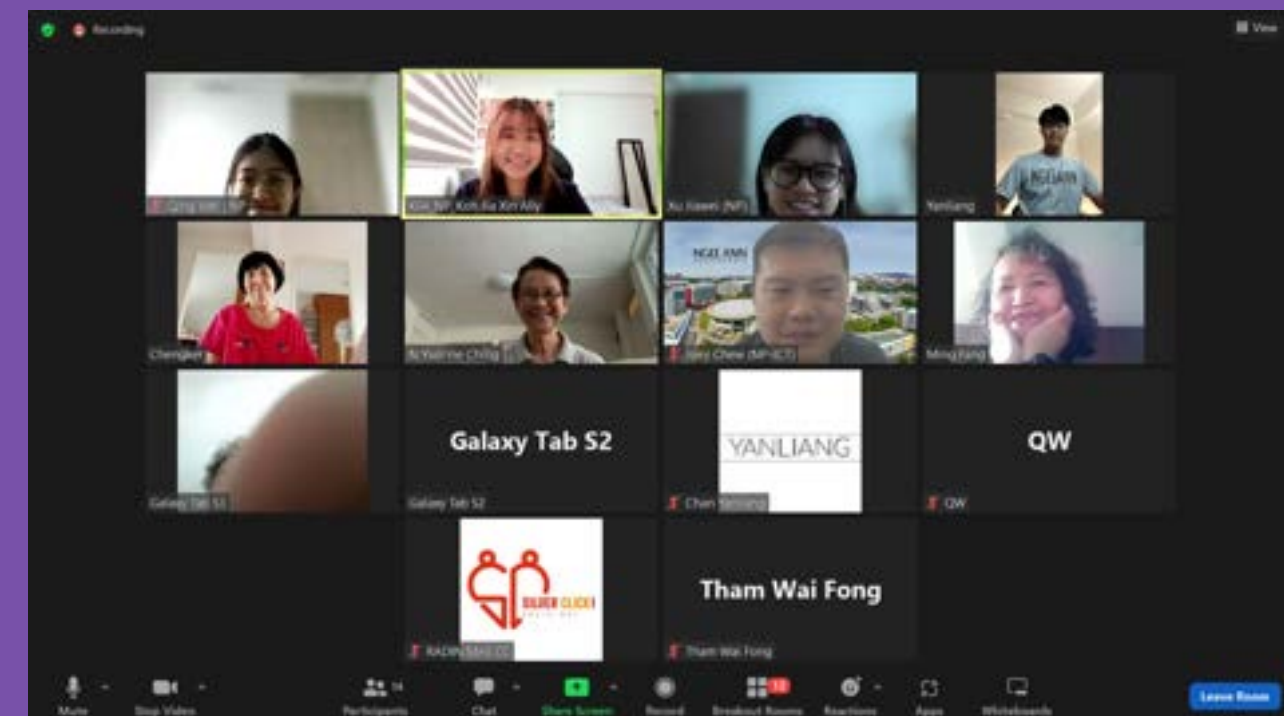
DIGITAL CLINIC <<<<<

The Digital Clinic @ Radin Mas is a community initiative focusing on educating the residents of the neighborhood on latest technology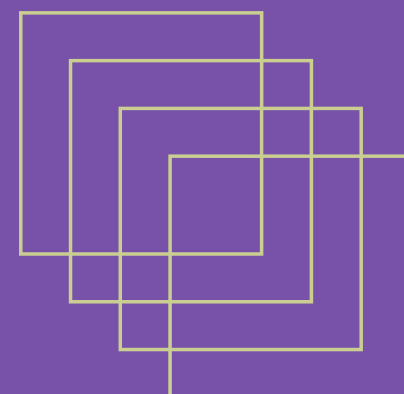 and gadgets to bring convenience to their lives. The residents come to the digital clinic with questions regarding technology and our ICTians provide help to them by teaching and answering their questions. For example, our ICTians have taught residents how to scan QR codes, simple smartphone usage and how to add people into their contact list.

NIGHT CYCLING <<<<

More than 80 participants, comprising students from Year 1 to 3, lectures and alumni took part in the event, and cycled over 23km. From the Singapore Flyer, to National Stadium, the route covered numerous iconic locations in Singapore!

Due to COVID, Many of us were not able to step out and interact with our peers. Night cycling with friends was a new experience for most of the participants and the planning team. Nonetheless, the participants were able to cherish this amazing opportunity to sweat it out and create wonderful memories with their friends and lecturers.

It took about 2 months to plan the event, from the route reconnaissance to the flow of the activities. Although there were hiccups along the way, the team planned around these setbacks and ensured that the eventual execution was a success.

MOVIE NIGHT <<<<

ICT Movie Night 2022 was held on 20 Oct as part of NP GradFest 2023! Black Adam (Singapore Premiere) was screened at KAP Mall EagleWings Cinematics to a full-house of 93 students and staff!

Some came dressed as their favourite Superheroes; others aced a NP Events and Self-Affirmation quiz to win Logitech Snowball Microphones and Movie Vouchers!

Everyone reconnected and built more good memories together - Wishing the graduating batch continued success in their next endeavours!

COMMSERVE PLEDGE

On 20th October, ICT launched the community service pledge activity. Our students, lecturers, Deputy Directors, and Director came to paste their pledge on the community-service board. Moreover, many alumni also came to express their best wishes, thoughts and suggestions for community service. We have collected hundreds of pledges from this event!
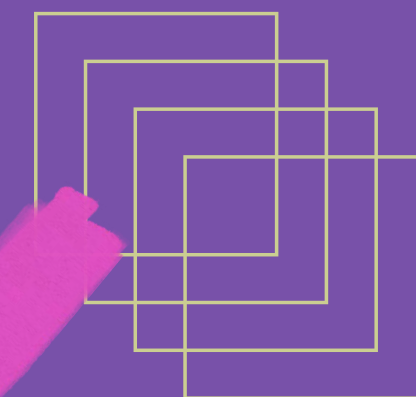
21 October 2022

DANCE HEIST

Dance Heist, previously known as Dance For Fun, is finally back after 2 year! With or without dance background, our students from ICT took up the challenge and represented our faculty! They battled it out to see who will emerge as this year's champion of dance heist. Despite heavy commitments outside of school, our students dedicated time to come back to school for practices.

Did you know? The dance was choreographed by our very own ICT students! Hard work, determination and perseverance was poured into the choreography which allowed us to emerge as second runner up in this year's competition. This competition was a tiring yet fulfilling experience for our students, forging long-lasting friendships and capturing beautiful memories to be shared to new batches of ICT students.
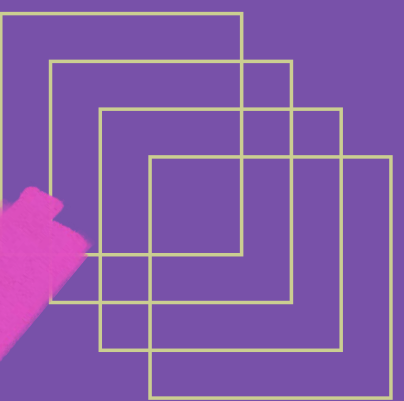
NP CARES WALK FIESTA <<<<

ICT Students were spotted walking for a good cause. For every 300m walked, 3 bowls of rice will be donated to the needy families in our community.

Our Principal flagged off the event and more than 70 students and staff from ICT walked several rounds around the track for this worthy cause! Join us next year for some fun and sun!

UPCOMING EVENTS

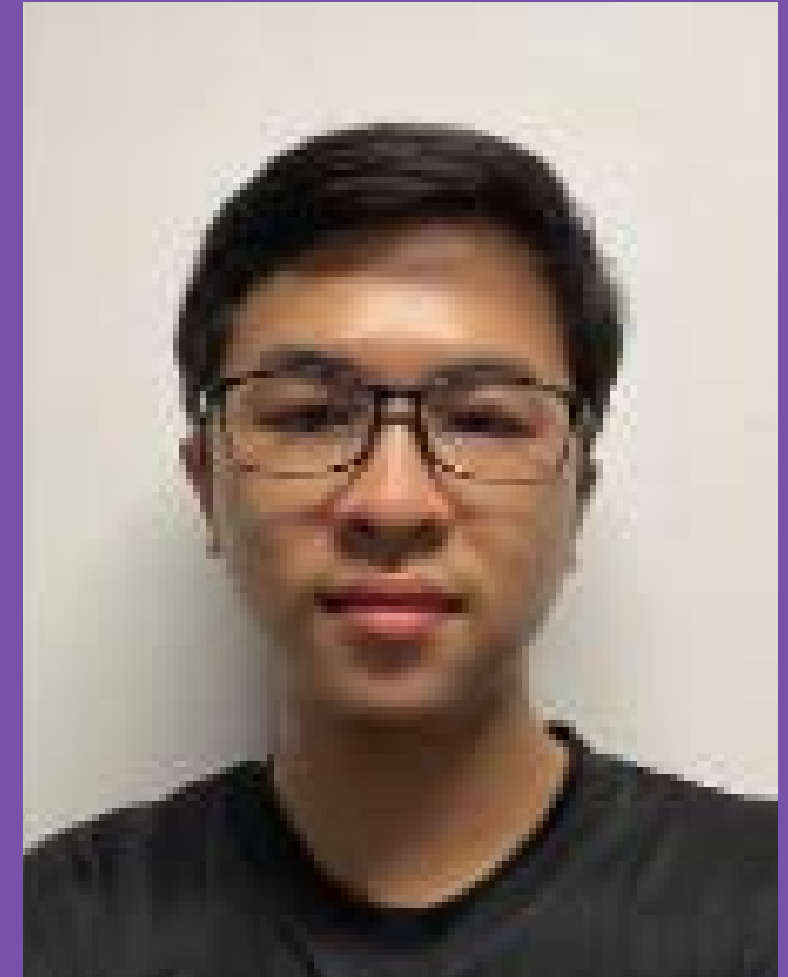- 22/23rd Nov Red Camp
- 20th Dec Silver Click
- 5/6/7th Jan Open House

BROUGHT TO YOU BY

Enrico

Shawn

Qin Guan