

MODULE PLANNING

ORBITAL

SPECIAL PROGRAMMES

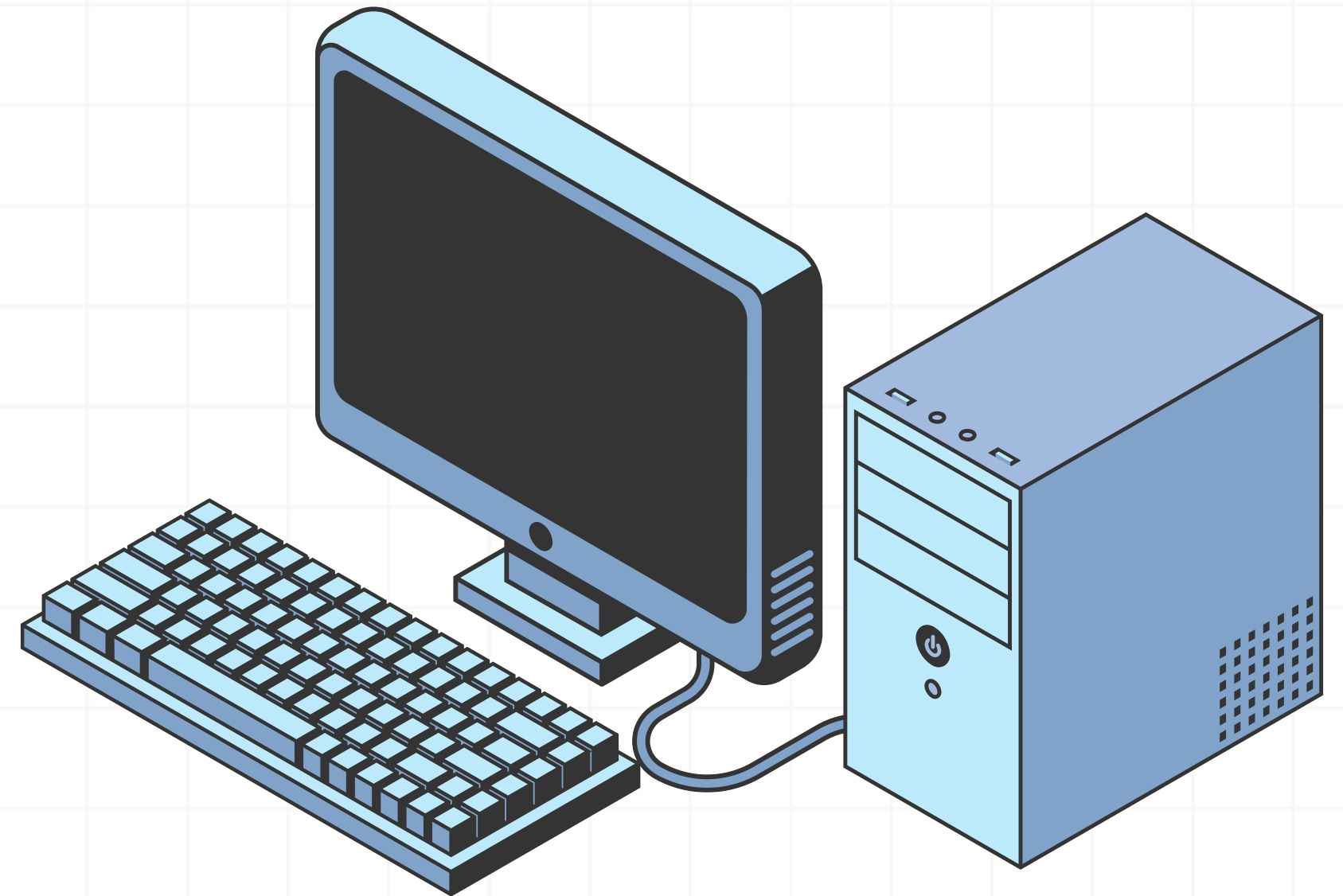
INTERNSHIPS

CLUBS

STUDENT LIFE

ACADEMIC DAY STUDENT SHARING AY25/26

COMPUTER SCIENCE



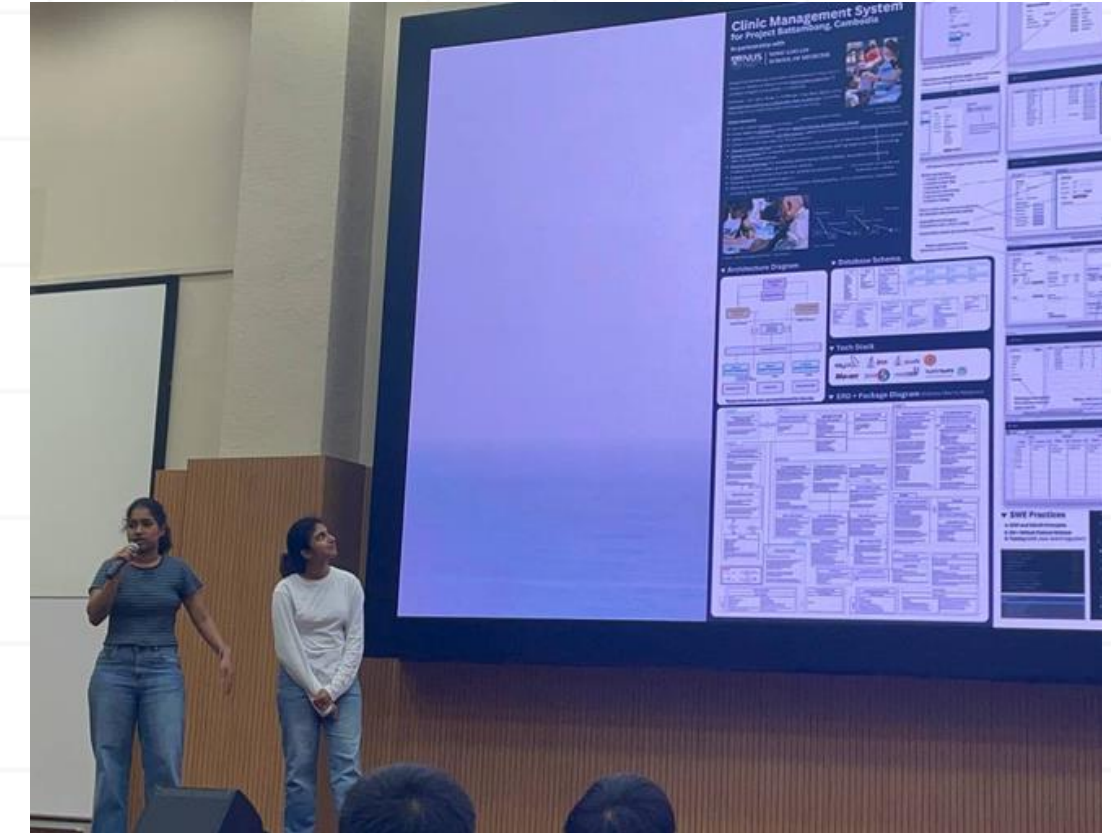
How **you** can make the **most*** of your **time here**

*This is for you to decide!

ABOUT ME

Kimaya Wanjari (tele: @kimaya_w)

- Year 2 Computer Science + NUS College
- NOC Toronto AY 25/26
- Deputy Director of Orientation AY 24/25
- NUS College Club AY25/26
- NUS Varsity Choir and NUSC Barbershop
- ex-Avenger for CS1101S
- Currently SWE summer intern



Types of headaches

Migraine



Hypertension



Stress



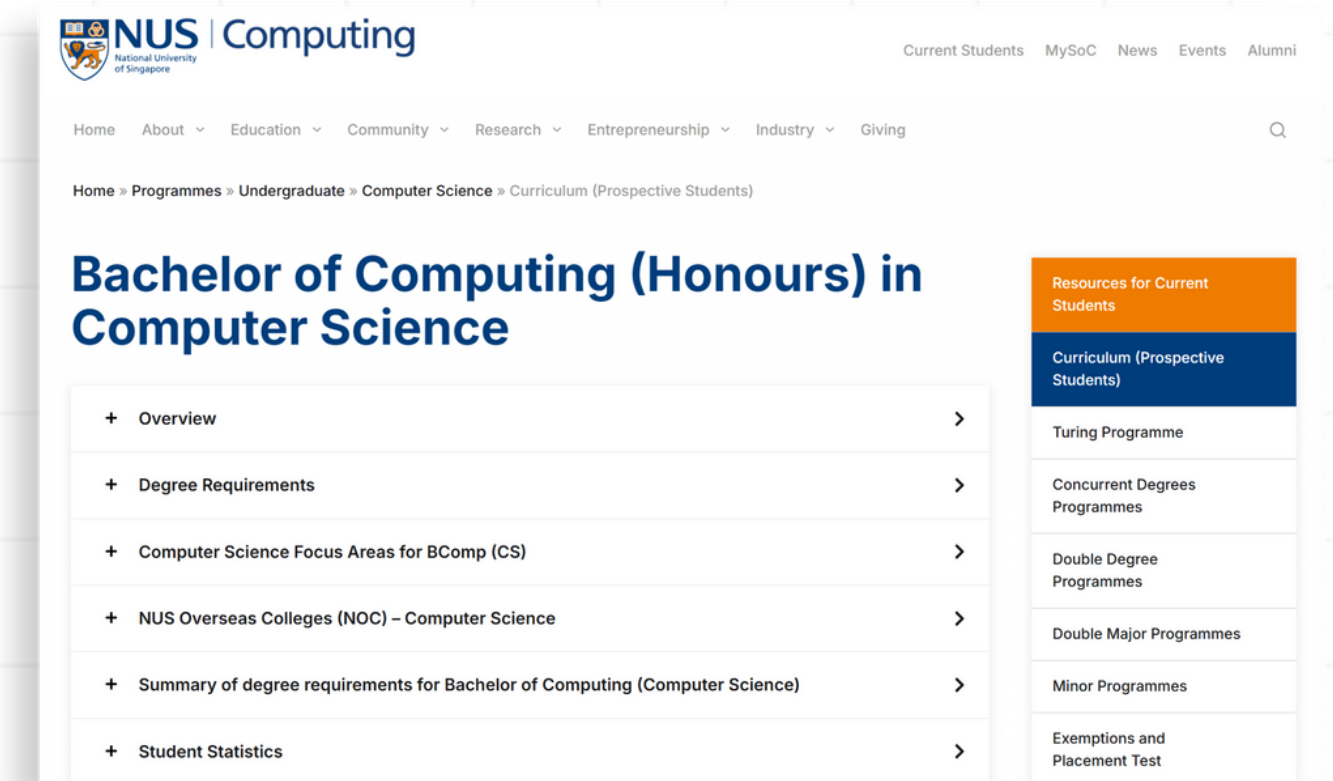
Module Planning



Good news: it's a breeze if you plan ahead!

COURSE PLANNING

- Know the **requirements** for your
 - Course completion
 - 2nd major and minors / double major (if any)
 - Specialisations
 - BComp Dissertation Project (required for Honours (Highest Distinction))
- You must finalise your academic plan declaration by start of Year 3!
- Take as many foundational (core) courses while you can. **You never want to be left behind due to missing prerequisites.**
- GEs / IS1108 / ES2660 / Science --> **relatively lighter workload**. You can take them after year 2 to **pair with demanding courses!** or use them as **buffer** in cases where you don't get a course.
- Downside of the above is that you **only have 3 courses for SUs (12 units) after Y1**



COURSE PLANNING

Some courses **must** be taken together

Taking an unholy trinity to make space for exchange/SP

Relatively chill Y4, can choose to do 2 CS focus areas

	Year 1 Sem 1		Year 1 Sem 2		Year 2 Sem 1		Year 2 Sem 2		Year 3 Sem 1		Year 3 Sem 2		Year 4 Sem 1		Year 4 Sem 2		TOTAL	REQUIREMENT
MCs	24		26		22		20		20		23		18		14		167	160
Primary Major	12		12		16		12		20		23		10		10		115	80
Faculty Requirements	8		12		0		8		0		4		0		0		32	44
Other Programmes	0		0		0		0		0		0		0		0		0	0
NUSC	12		10		2		8		8		12		4		0		56	52
Unrestricted electives (UEs)	4		0		4		0		0		0		4		4		16	-
Double counted modules	12		8		4		12		8		12		0		0		56	-
Primary Major	CS1231	4	CS2030S	4	CS2103T	4	CS2109S	4	NOC	20	NOC	23					LEGEND	
	MA1522	4	CS2040S	4	CS2100	4	CS2106	4					CS3263/64	4	CS4243/48	4	CS Breadth & Depth - Artificial Intelligence	
	CS1101S	4	MA1521	4	CS2101	4	CS3230	4									CS Breadth & Depth - Capstone Project	
					ST2334	4							CP4101	6	CP4101	6	Double counted	
Faculty Requirements (Common Curriculum + Writing)	GESS	4	GEX	4			Cross-Disciplinary I	4									REMARKS	
	ES2660	4	GEA1000 (GEA)	4			Interdisciplinary I	4									- NEP is to be taken from Y2S1 to Y3S2 - SEP in Y3S2 (cannot map common curriculum overseas) - All of SoC's common curriculum is satisfied through NUSC, with the exception of Digital Literacy and Digital Ethics. - ES2660 typically counts towards GEX, but it is unclear (as of 31 Aug 2022) if NTW, which maps over to ES2660, will also count for GEX. Hence, both mappings are reflected separately.	
			IS1108	4			GEC	4										
Other Programmes (Second Major + Minors)											GEN	4					Double counted modules are striked out to indicate which module is to be taken.	
NUSC	NPS	4	NGN	4			NSS	4	MC	4	MC	4						
	NSW	4	GEA1000N	4			NST	4	MC	4	MC	4						
	NTW2035	4	NHS	2	NHS	2							NGT	4				
Unrestricted Electives	1T302 (APC H3)	4			CP2106								UE	4	UE	4		

Double counting courses
! Triple counting is **not** allowed


Some courses are only offered in 1 sem per AY

CS Focus Areas

- [Algorithms & Theory](#)
- [Artificial Intelligence](#)
- [Computer Graphics and Games](#)
- [Computer Security](#)
- [Database Systems](#)
- [Multimedia Information Retrieval](#)
- [Networking and Distributed Systems](#)
- [Parallel Computing](#)
- [Programming Languages](#)
- [Software Engineering](#)

Each **focus area** requires **3 primaries courses** to complete but you can do more

If you plan your time at SoC well, you can do multiple CS focus areas! :)

 **Note:** Some of these courses are only offered in **1 semester per AY!**

COURSE REGISTRATION

- Don't forget your rounds!! (speaking from experience unfortunately)
- For tutorial bidding use the alternate ranking “hack”

Since it's quite likely to get your 1st, 2nd and 3rd choice but less so for the 4th and 5th, your 6th and 7th choices should be the second preferring timing for your modules 4 and 5, to increase your chances.

YOUR RANKING SHOULD LOOK LIKE THIS:

1.1A	6.5B	11.1C	16.5D
2.2A	7.4B	12.2C	17.4D
3.3A	8.3B	13.3C	18.3D
4.4A	9.2B	14.4C	19.2D
5.5A	10.1B	15.5C	20.1D

MODULES ARE NUMBERED 1 – 5

TUTORIAL SLOTS FOR EACH MODULE ARE LABELLED A – D, BY DESCENDING ORDER OF PREFERENCE

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
14-Jul-25	15-Jul-25	16-Jul-25	17-Jul-25	18-Jul-25	19-Jul-25	20-Jul-25
Academic Plan Declaration (for all students) Starts 0900hrs, 14-Jul-25 Ends 1700hrs, 18-Aug-25						
21-Jul-25	22-Jul-25	23-Jul-25	24-Jul-25	25-Jul-25	26-Jul-25	27-Jul-25
SELECT COURSES (Rd 1) (UG and CPE) Starts 0900hrs	SELECT COURSES (Rd 1) (UG and CPE) Ends 1200hrs		0900hrs: Release outcome for SELECT COURSES (Round 1) (Note: Students will be informed via email and uNivUS)			
28-Jul-25	29-Jul-25	30-Jul-25	31-Jul-25	01-Aug-25	02-Aug-25	03-Aug-25
	SELECT COURSES (Rd 2) (UG and CPE) Starts 0900hrs	SELECT COURSES (Rd 2) (UG and CPE) Ends 1200hrs		0900hrs: Release outcome for SELECT COURSES (Round 2) (Note: Students will be informed via email and uNivUS)	FLAG DAY	
04-Aug-25	05-Aug-25	06-Aug-25	07-Aug-25	08-Aug-25	09-Aug-25	10-Aug-25
SELECT COURSES (Rd 3) (UG and CPE) Starts 0900hrs	SELECT COURSES (Rd 3) (UG and CPE) Ends 1200hrs		0900hrs: Release outcome for SELECT Courses (Round 3) (Note: Students will be informed via email and uNivUS)	RAG DAY	NATIONAL DAY	
			Online Appeal - Unable to Secure Course Start 0900hrs End 1700hrs, 21-Aug-25			
11-Aug-25	12-Aug-25	13-Aug-25	14-Aug-25	15-Aug-25	16-Aug-25	17-Aug-25
Lectures Start			0900hrs: Release outcome for SELECT TUTORIALS/LABS (Round 1) (Note: Students will be informed via email)			
	SELECT TUTORIALS/LABS (Rd 1) (All careers) Starts 0900hrs Ends 1700hrs		SELECT TUTORIALS/LABS (Rd 2) (All careers) Starts 0900hrs Ends 1700hrs			
18-Aug-25	19-Aug-25	20-Aug-25	21-Aug-25	22-Aug-25	23-Aug-25	24-Aug-25
Tutorials for GE% (non-GER and non-GEQ) & Writing Course Start						
0900hrs: Release outcome for SELECT TUTORIALS/LABS (Round 2) (Note: Students will be informed via email)						
ADD/SWAP TUTORIALS (All careers) Starts 0900hrs Ends 1700hrs (Note: Allocation process will be temporarily unavailable from 0830 to 1100hrs.)						
25-Aug-25	26-Aug-25	27-Aug-25	28-Aug-25	29-Aug-25	30-Aug-25	31-Aug-25
Other Tutorials Start						



After sem 1 ends

But what about **SUMMER???**

Options to explore things you enjoy :)

Orbital

Hackathons + Networking events

Special Programmes

Internships

CP2106

ORBITAL

Application

- Apply in pairs (preferably from SoC) during Y1 summer

Experience

- Very good way to learn about SWE principles (OOP, SOLID and QA/testing)
- Monthly peer reviews
- You'll be assigned an advisor (mandatory) and a mentor if Artemis-level.
- Advisors inform you about deadlines and give feedback, some are chill, others strict
- Expected 140–160 hours over the summer (tracked via self-reporting).

Tips

- Choose a project you're interested in because motivation really matters.
- Communicate with your partner often. Misalignment is a common reason teams fail.



MY ORBITAL EXPERIENCE

VEASNA

- Clinic Management system for Project Battambang
- Efficient record keeping and cross station in the absence of reliable network
- We have successors to this project this year and new positions open every cycle



Pharmacy

Queue Manager

Consultation

Menu

Menu

Menu

Select Patient :

Particulars

Queue No. :
Name :
Age :
Sex :
Phone No. :
Prescription
Metformin 500
Take one tablet
Drug Allergies
Erythromycin

Waiting

21: Test-1
17: QTest1
19: QM2
30: test13
31: tet14
32: Test15
34: Visal Phai
35: Vannak Chney

Select Patient : 1
Search

View records as text file

Particulars

Queue No. : 1
Name : Vuthy Roeun
Age : 25
Sex : M
Phone No. : 123-456-7890

Height and Weight

Height : 180 cm
Weight : 74 kg
BMI : 22.84 kg/m2 Healthy Weight

- no additional notes -

Dental

- no additional notes -

Deferred

Hearing Test

Hearing problems : No
- no additional notes -

Snellen's Test

Visual Acuity
With pinhole : 20/20 20/20
No pinhole : 20/20 20/20

Reports black dots in vision

Head Lice

Head Lice Reported : No
- no additional notes -

History

Open history records

Consultation notes

Patient complains of severe headache and dizziness at night.

Condition type

Chronic

Prescription

Name	Dsg (mg)	Units	Dosage Instructions
Aspirin	81mg	10 tablets	hours and Take one tablet ever 6 hours and Take one tablet every 6 hours and Take one tablet every 6 hours
Loratadine	10	10	Take one tablet a day in the morning.

Edit Prescription

Referral needed

☒ Yes ☐ No

Create/View Referral

☒ Patient has successfully completed their consultation.

Update

Queue Manager (Consultation)

Waiting → In-Progress →

2 5
3
6
8
10
36



STARTING PROJECTS

HACKATHONS

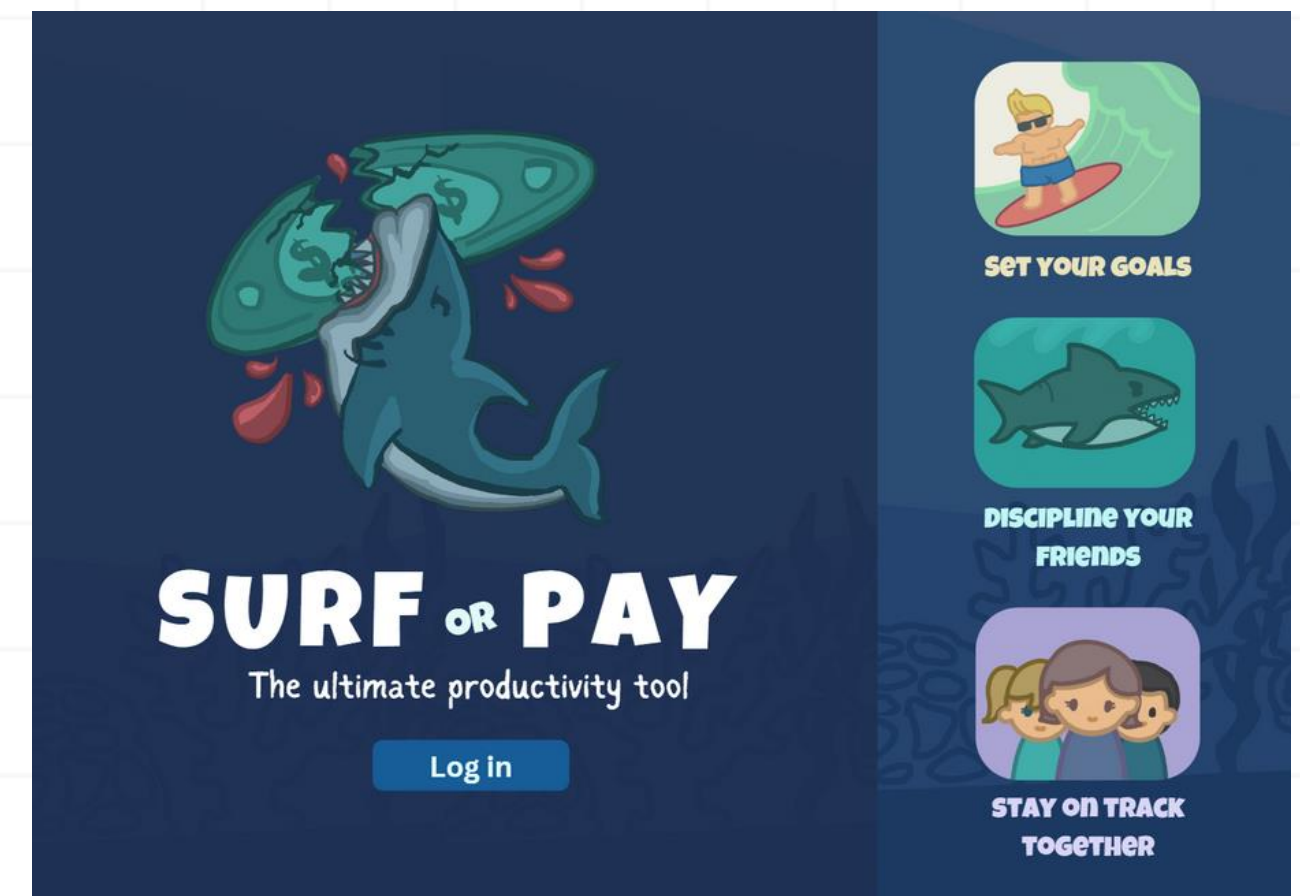
- Level up programming skill (*debatable because of AI) and improve **product thinking**
- Learn new tech/tools outside the classroom
- Practice teamwork, time management, and problem-solving under pressure.
- There is a chance you will continue to develop the idea into a full-fledged product even after the hackathon



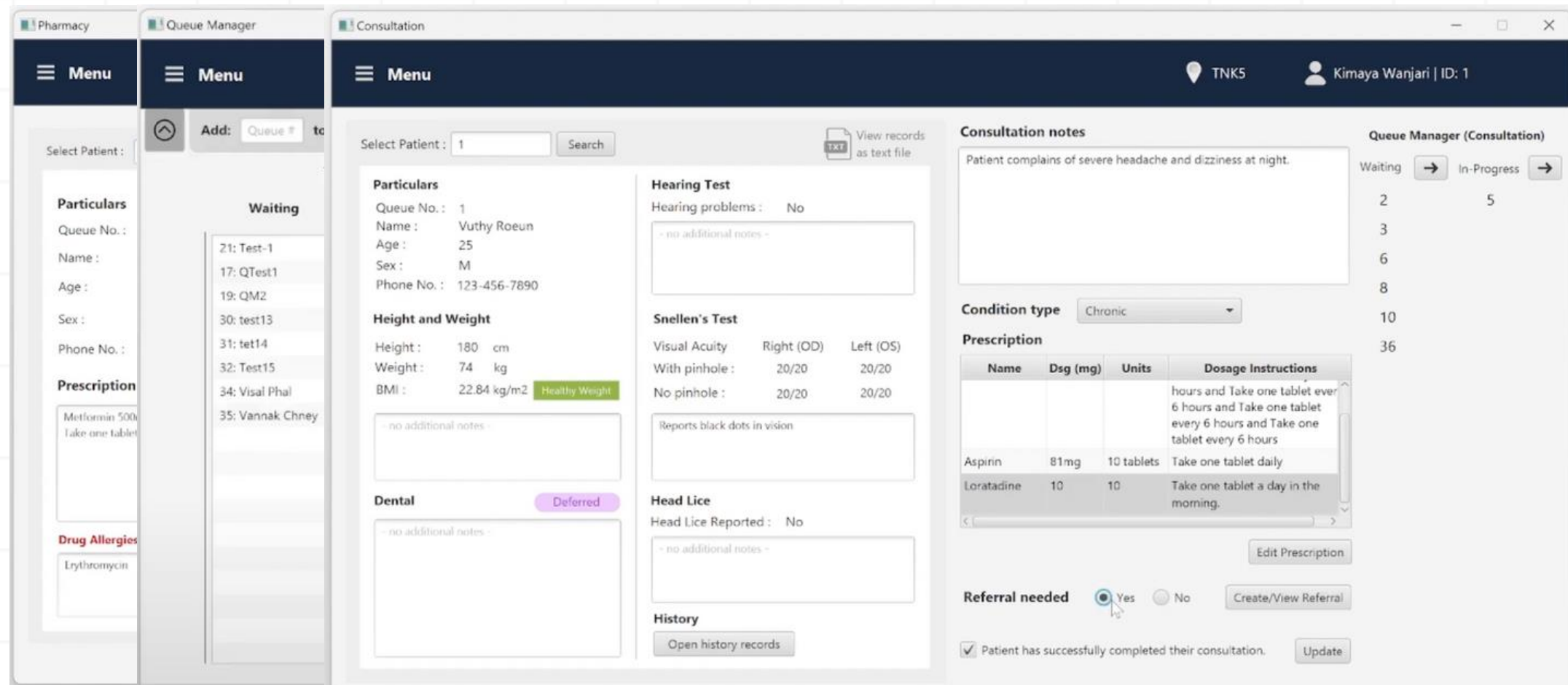
PROJECTS



▲ AI meeting notes and task allocator tool



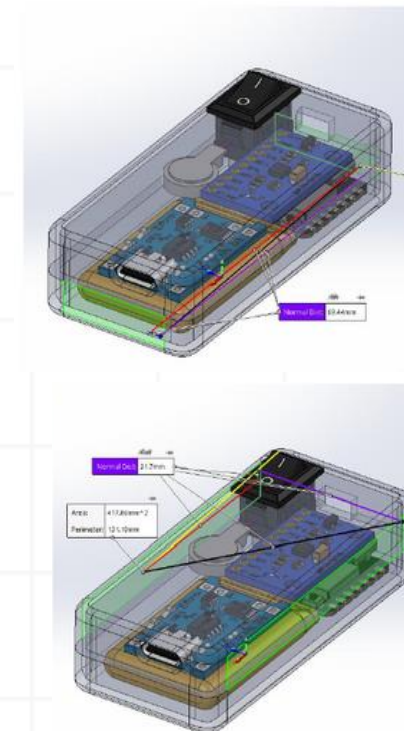
▲ Productivity tool with real financial penalties



▲ Clinic flow and records management system



◀ Posture management tool



*credits to Lim Ji Yong and Meera Ranjan for working on the hardware !!

SPECIAL PROGRAMMES

- Undergraduate Research Opportunities Programme (UROP)
- Student Exchange Programme (SEP)
- NUS Overseas Colleges (NOC)
- Overseas Community Involvement Project (OCIP)
- And many others...

Know the mapping for each of these special programmes!!

NOC	Units	Grading	SoC Mapping
TR3201N <u>or</u> ETP3203L	9	CS/CU	CS3882 + 1 UE
ETP3206L	16	CS/CU	IER (12 mc) + { CS3203 (8 mc) + 1 UE <u>or</u> 2 3KUE + 1 UE <u>or</u> 3 UE }
TR3203N/E/P <u>or</u> ETP3202L/E/P	8	Letter	
TR3002	4	Letter (OCT)	
TR3049A <u>or</u> ETP3222A	4	Letter (OCT)	
ETP2271	2	CS/CU	
Total units	43		

Eg. 1 year NOC ^

NUS OVERSEAS COLLEGES



Beijing



Chicago-Urbana-Champaign



Chongqing



Indonesia



Japan



London



Malaysia



Munich



New York



Norway



Paris



Santiago



Shanghai



Singapore



Stockholm



Thailand



The Greater Bay Area



The Philippines



Toronto-Waterloo



Vietnam



Silicon Valley

Every location has its own **unique selling point/ industry**

Know which locations have **partner universities**

Factor in the duration of your programme **(3 mth vs 6 mth vs 12 mth)** into your study plan early on

I highly recommend doing a 3-mth NOC before going for longer NOC programmes in your following years

INTERNSHIPS

Where to Apply

- Main platforms: LinkedIn, Google Careers, company websites
- TalentConnect = helps to land opportunities for credit-bearing roles (ATAP)

How Many Applications?

- Expect to mass send applications before getting an offer
- It's a numbers game. Don't take rejections personally

Can Y1s Get Internships?

- Rare, but possible especially if you have:
 - Polytechnic background (big plus!)
 - Side projects / GitHub / small contract work
- Most students do orbital during the summer after Y1

When to Intern?

- Summer (May–Aug) = most common (12 weeks)
- Winter (Dec–Jan) = rare, usually < 1 month
- Part-time during semester = risky but possible (depends on load)
- Consider ATAP (6 months, takes LOA)

Quick Tips

- Start LeetCode early (even Easy Qs help)
- Focus on projects + learning early; offers will follow

TECHNICAL INTERVIEW PREPERATION (SUMMER) – TIPS

What is it?






- 10-week non-graded summer prep programme for coding interviews
- Focused on helping freshmen prepare for technical internships
- No modular credits, open to all SoC students

What You'll Learn

- Weekly DSA homework (based on the famous Tech Interview Prep List)
- Language-agnostic (Python, Java, C++, JS all fine)
- Based on Tech Interview Handbook

Timeline & Format

- Weekly online lectures (recordings available)
- Start Date around mid-May

AY23/24 Summer Completed View				
May 20, 2024 - Jul 21, 2024				
Past Submissions <input type="text" value="Search"/>				
Question	Submitted At (SGT)	Difficulty	Language	Action
Coin Change II LeetCode	Jul 14, 2024	Medium	Java	View
House Robber II LeetCode	Jul 14, 2024	Medium	Java	View
Combination Sum LeetCode	Jul 14, 2024	Medium	Java	View
Coin Change LeetCode	Jul 14, 2024	Medium	Java	View
Alien Dictionary LeetCode	Jul 14, 2024	Hard	Java	View
Showing 1 to 5 of 50 rows				Previous Next
Past Interviews <input type="text" value="Search"/>				
Partner	Completed At (SGT)	Duration	Language	Action
 Timenikhil Timenikhil	Jul 14, 2024	43m 41s	Python 3	View
 tingxuanp tingxuanp	Jun 23, 2024	1h 34m 16s	Python 3	View
 Kan Jun Hong Fluffykan	Jun 14, 2024	1h 4m 9s	Java	View
 Kan Jun Hong Fluffykan	Jun 14, 2024	48m 0s	Java	View
 Lo Yong Zhe Reallyeasy1	Jun 8, 2024	5h 11m 35s	Python 3	View
Showing 1 to 5 of 5 rows				Previous Next

But what if I want to do more than just study **during sem time?**

Student Clubs

Student Life Events

Part-time Teaching Assistant

STUDENT CLUBS

Explore broadly in Year 1

- Attend welcome teas & intro sessions
- Join multiple Telegram/Discord groups
- Try out workshops, don't commit blindly

What's your vibe?

- Want to **build/create**? → DSC, Hackers, FinTech, GDG, StartIT, WiT
- Want to **compete**? → GreyHats, Hackers
- Want to **lead**? → NUSSU Students' Computing Club, ExCos

Don't overcommit

- Quality > quantity: pick 1–2 you can really be active in

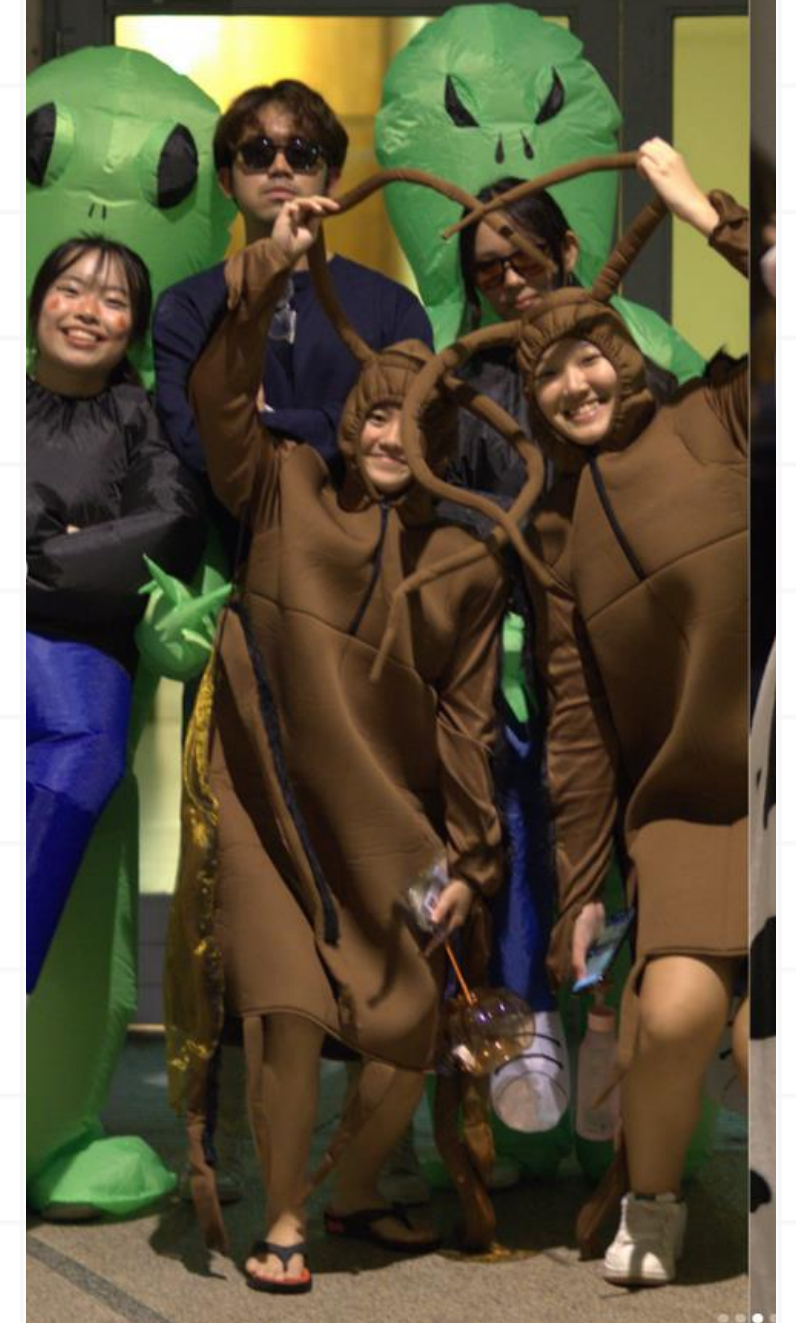
Full list of Official SoC Student Clubs

- NUS Students Computing Club
- Developer Student Clubs (DSC)
- NUS FinTech Society
- Women in Tech (WiT)
- NUS Games Development Group
- NUS GreyHats
- NUS Hackers
- StartIT

BEING A **STUDENT TEACHING ASSISTANT (TA)**

- **Fulfil**ing experience + keeps the content fresh in your brain even after completing the course
- E.g. CS1101S has a large team of avengers. Keep a lookout for applications if you are interested after Y1S1!
- Being a TA in the Y1 courses probably helps your chance of being one for future courses
- Some courses ask former TAs to recommend students from their class to be future TAs
 - E.g. CS3230
- SoC compensates students generously 🎉
- TA workload can vary **greatly** across courses
- You **don't need** an A+ or even an A/A- for that matter to be a TA
 - Ability to take exams != Ability to teach/explain

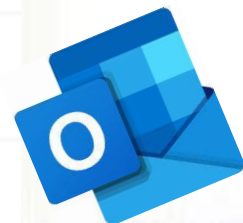
Make time for what **won't show up on your academic transcript :)**





canvas

*** posted a new assignment!



Inbox (184)

Due tomorrow

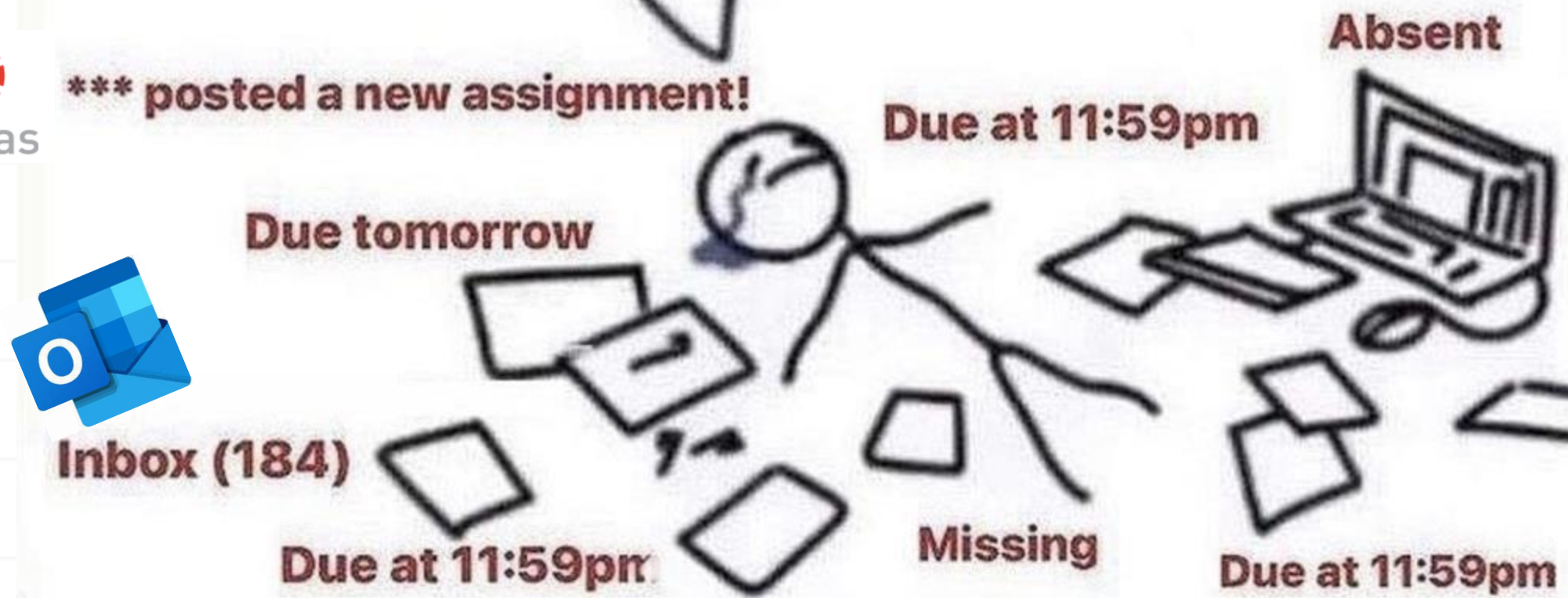
Due at 11:59pm

Due at 11:59pm

Missing

Absent

Due at 11:59pm



Mental Health resources at NUS

Mental health is more important than we might realise ❤️ Especially in uni



NUS Care Unit

The [NUS Care Unit \(NCU\)](#) comprises a team of trained professionals who provide emotional and practical support to all NUS students and staff – regardless of faculty, department or hostel – who have been affected by sexual misconduct.

Phone

+65 6601 4000

Email

ncu_help@nus.edu.sg



University Counselling Services

Counselling is free for all full-time NUS students at the [University Counselling Services \(UCS\)](#). Counsellors at UCS abide by a strict confidentiality policy, allowing you a safe space to share openly.

You may walk-in (available only at Kent Ridge Campus), phone or email for an appointment with UCS.

Phone

☎ +65 6516 2376

Email

ucs@nus.edu.sg



Hotlines for Psychological Emergencies

Campus Security

☎ +65 6874 1616 (Kent Ridge Campus)
☎ +65 6516 3636 (Bukit Timah Campus)

Available 24/7 for immediate assistance during life-threatening psychological emergencies

Office of Safety Health & Environment

☎ +65 6516 4341 (Emergency preparedness, fire safety & business continuity)
☎ +65 6516 1084 (Laboratory, office & general workplace safety)

Lifeline NUS

☎ +65 6516 7777 (24 hours)

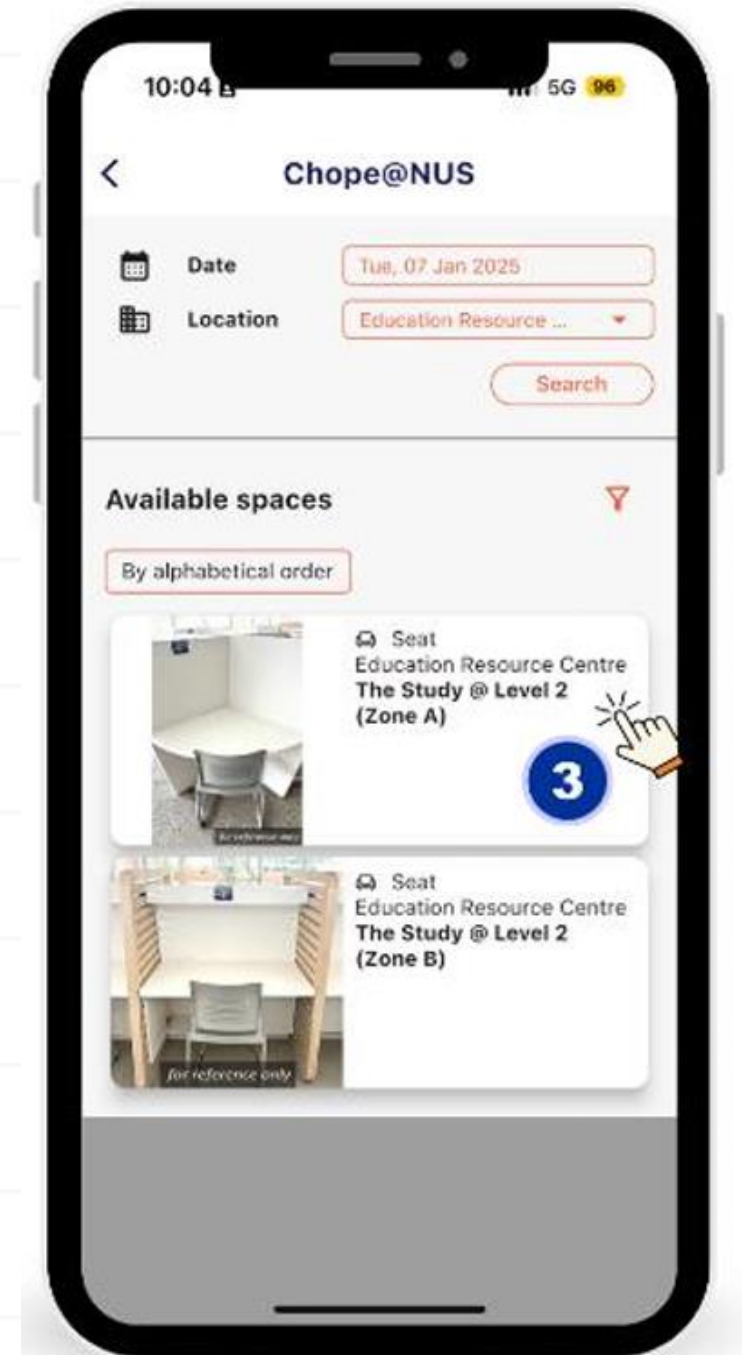
OTHER THINGS TO MENTION

Free Printing (COM1)

- Computing students are given 50 pages of printing quota monthly.
- Each student can hold up to 100 pages of free printing quota

Study spots + booking them in advance!

- Bookable
 - U Town Education Resource Centre
 - Central Library
 - Med-Science Library
- Unbookable
 - COM1 basement
 - Terrace



ALL THE BEST!

Telegram: [@kimaya_w](https://t.me/@kimaya_w) if you have any questions!