

TAN TZE HENG

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EDUCATION

National University of Singapore (NUS) (August 2021 – Present) Singapore
Bachelor of Science (Hons)

- Major in Mathematics (Specialisation in Pure Mathematics)
- Current CAP (as of December 2022): 4.42/5.00 (Expected Honours with Distinction)
- *Relevant coursework:* Linear Algebra, Algebra, Mathematical Analysis, Mathematical Logic

SKILLS

Computing: LaTeX, Python, R, Microsoft Office, website development (Hugo), Unix shell

Media: GIMP/Adobe Photoshop, Kdenlive, Adobe Premiere Pro, Canva

Language: English (good), Mandarin Chinese (native), Malay (good), Cantonese (native)

PROJECTS/PORTFOLIOS

Coding: see github.com/ttheng3810 for past projects, including a Telegram bot named *NUSMiniMods*

AWARDS AND SCHOLARSHIP

- International Youth Math Challenge (IYMC) 2020, Silver Honour
- International Youth Math Challenge (IYMC) 2019, Bronze Honour

EXPERIENCE

NUS Undergraduate Teaching Opportunities Programme by Science, MA2001 Teaching Assistant (January 2023 – May 2023) Singapore

- Assisted in the preparation of teaching materials and management of administrative duties of a typically first-year university mathematics course coded MA2001 and titled Linear Algebra I, which was enrolled by over 600 students, alongside the module coordinator
- Conducted two weekly tutorial classes involving over 30 students for 13 weeks, while responding to student queries via email post-class

NUS Central Library, Student Assistant (Events) (August 2022) Singapore

- Provided logistical support for and guided a series of library tours of NUS Central Library, the flagship library of the National University of Singapore, which attracted more than 100 public visitors in total, as part *First Year Essentials*, a promotional programme organised by the library during the start of the academic year

NUS Commencement Team, IT Assistant (July 2022) Singapore

- Offered IT and logistical support for more than 20 commencement ceremonies held across 2 weeks, involving thousands of NUS fresh graduates

NUS Central Library, Student Assistant (Regular Duties) (March 2022 – May 2022, August 2022 – May 2023) Singapore

- Assisted in regular administrative duties of NUS Central Library, which houses more than 10 000 books and serves more than 1 000 visitors daily, including front-desk customer service, book collection and logistical support

CO-CURRICULAR ACTIVITIES

NUS Wind Symphony, Publicity Subcommittee Member (August 2022 – May 2023) Singapore

- Designed some publicity materials for *InTempo 2023: Music in Living Technicolour*, an annual wind band concert attracting an audience of hundreds

NUS Phoenix Press, Article Team Member (September 2021 – May 2022, August 2022 – May 2023) Singapore

- Acquired online article writing and website management skills (Wix); contributed 4 online articles about university life onto thesurhge.com
- Participated in the creation process of an online quiz titled “Which JCRC Member are You?”, including devising the quiz questions and publishing the quiz onto The Surhge Website

NUS Raffles Hall Developers, Backend Team Member (September 2021 – May 2022, August 2022 – May 2023) Singapore

- Acquired and applied programming skills in the development and maintenance of RHApp, a Progressive Web App (PWA) which caters for Raffles Hall Residents’ hall activities
- Managed, maintained and revamped backend database of RHApp using MongoDB, Python and AWS, which stores information of more than 100 users and facility booking data
- Joined as a member of the Administrative Team for NUS Inter-Hall Hackathon 2021 to oversee administrative matters, including setting up online sign-up forms and managing a Telegram channel for event-related announcements

NUS Raffles Hall Musical Production 2022/2023, Musician & Composer (August 2022 – October 2022) Singapore

- Composed two songs and performed the music for *Home, Truly*, a ticketed and entirely student-made musical production, which achieved a full house and received positive feedback from Dr. Kenneth Lyen, a prolific musical writer

COMMUNITY INVOLVEMENT

NUS Project RHino, Volunteer Instructor (September 2022) *Online*

- Instructed secondary school level Mathematics and English content to Singaporean secondary school students, as part of *Project RHino*, a volunteering initiative by NUS Raffles Hall

NUS HERE! Arts Carnival 2022, Volunteer (August 2022) *Singapore*

- Assisted in audience ushering and counting for an arts groups event with over 5 000 participants
- Responded to a variety of ad hoc duties during event

NUS Community Service Club Cantonese Workshop, Instructor (July 2022) *Online*

- Instructed and guided more than 60 participants who are beginners in Cantonese in the online dialect workshop through interactive presentation and hands-on activities, receiving positive feedback from participants
- Planned and designed teaching materials for the dialect workshop, which includes teaching slides, short quizzes and workshop booklet

NUS HERE! Arts Carnival 2021, Help Desk Volunteer (August 2021) *Online*

- Assisted in the posting of event-related announcements of the virtual exhibition held via Zoom through the chat function
- Directed visitors facing technical issues to virtual booths (represented by Zoom breakout rooms) they prefer to go to; provided assistance to visitors with queries