

JOSHUA NEE TING FENG

85854870 • joshuanee@u.nus.edu
linkedin.com/in/joshua-nee • <https://github.com/joshuan98>

EDUCATION

National University of Singapore

Aug 2021 - Present

Bachelor of Engineering, Computer Engineering

- Cumulative Average Point: 4.90 / 5.0
- Expected Date of Graduation: July 2025
- Course work: CS1010 Programming Methodology (A+), CS2040C Data Structures and Algorithms (A), CS3243 Introduction to Artificial Intelligence (A+)

Raffles Institution

Jan 2013 - Dec 2018

Integrated Programme

- GCE A-Levels, Rank Points: 87.5 / 90
- Course work: Higher 3 SMU Game Theory (Merit), Higher 2 Mathematics (A), Higher 2 Physics (A), Higher 2 Economics (A), Higher 1 Chemistry (A), Higher 1 Project Work (B), Higher 1 General Paper (B)

PROJECTS & HACKATHONS

Telegram Bot - Study Buddy

May 2022 - Present

- Collaborated as main developer in a group of 3 in building a Telegram bot aimed at connecting students who wish to study together
- Built using MongoDB for backend and Heroku for deployment
- Link: <https://github.com/study-buddy-developers/study-buddy>

Game Development - Orbital (Apollo 11 / Advanced)

May 2022 - Aug 2022

- Attained the 2nd highest Level of Achievement (Apollo 11) for an Independent Software Development Project
- Developed a single-player precision platformer game in a pair, built using the Unity game engine, with sprites and art style adapted from classic games
- Link: <https://joshuan98.itch.io/frog-in-the-well>

Augmented Reality - Future Interfaces With Smart-Glasses

May 2022 - May 2022

- Developed an Optical Head Mounted Display (Smart Glasses) Android app in a team of 3, using Unity for the Nreal Light AR glasses to guide users through shopping malls by following a feline companion
- Link: <https://www.youtube.com/watch?v=GGODpfyHexY>

Robotics - Alex to the Rescue!

Mar 2022 – Apr 2022

- Built and controlled a tele-operated search and rescue robot with 3 others, using Arduino, Raspberry Pi and LIDAR
- Utilised skills in bare-metal programming, Hector SLAM, and TLS-secured communication
- Link: https://docs.google.com/document/d/1tGFpTUYC3wpmXLF4sf86e_ZSbH5PRkSeuC0BV3aLO_M/edit?usp=sharing

Blockchain - Singapore Blockchain Innovation Challenge

Dec 2021 - Dec 2021

- 3rd Place in the Enthusiast Track of the Hackathon

- Developed a web app in a team of 4, focused on interoperability between a health blockchain and insurance blockchain to build an instant-payout solution from viewpoint of an insurance company
- Utilised the Affinidi platform to verify health certificates and extended project's scope with ZKSync Layer-2 platform to minimise gas fees
- Link: <https://github.com/adblocker-3/hichain>

WORK EXPERIENCE

National University of Singapore, Teaching Assistant **Aug 2022 - Present**

- Worked together with 7 others to conduct distinct tutorial and lab sessions for Data Structures and Algorithms module

Republic of Singapore Navy, Marine Systems Engineer **Feb 2021 - May 2021**

- Underwent Voluntary Extension of Service (VES) and Short Term Contract (STC)
- Spearheaded creation of Android mobile application using Android Studio to facilitate accuracy of data logging and halving the time taken for the calculation process
- Collaborated in a team of 3 to maintain and upgrade ship's internal systems

Singapore Armed Forces (SAF), National Serviceman **Apr 2019 - Feb 2021**

- Engaged in Singapore-India-Thailand Maritime Exercise (SITMEX) and Singapore-India Maritime Bilateral Exercise (SIMBEX), a trilateral and bilateral naval exercise respectively
- Conducted Midshipmen Sea Training Deployment (MSTD) to train future naval officers in the Singapore Armed Forces
- Showcased capabilities of Republic of Singapore Navy through maritime sail-past during the National Day Parade (NDP) 2020
- Attained rank of 3rd Sergeant

EXTRA-CURRICULAR ACTIVITIES

National University of Singapore, Orientation Group Leader **Jun 2022 – Jun 2022**

- Led as Orientation Group Leader for the NUS School of Computing e-Freshmen Orientation Programme overseeing a group of 30 freshmen

National University of Singapore, Orientation Organiser **Dec 2021 – Jun 2022**

- Organised NUS Electrical and Computer Engineering Camp for over 100 incoming freshmen

Raffles Institution, Orientation Organiser **May 2015 – Dec 2016**

- Teamed with over 100 members to orchestrate the Secondary One orientation camp and partnered with five others to mentor one class throughout their Year One journey

SKILLSETS & INTERESTS

- Languages: English (spoken and written), Chinese (spoken and written)
- Technical: Computer-Aided Design, Microsoft Office Suite (Word, PowerPoint, and Excel), MATLAB
- Programming: Arduino, Android Studio, C, C++, C#, CSS, GPIO Programming, HTML, JavaScript, Lua, MongoDB, Python, Raspberry Pi, React, SQLite, Unity
- Interests: Full-Stack Development, Virtual Reality, Artificial Intelligence
- Hobbies: Board Games, Boxing, Travelling