

# Francis Yeo Zhao Yik

---

+65 9688 1341 [INTERN@FRANCISZY.COM](mailto:INTERN@FRANCISZY.COM) [SG.LINKEDIN.COM/IN/FRANCISZY](https://SG.LINKEDIN.COM/IN/FRANCISZY) SINGAPOREAN

**AVAILABILITY: 13 MAY 2024 - 2 AUG 2024**

## PROFILE

I am a Technology enthusiast that love keeping abreast with the current development of latest technology, and I am inspired to develop future technologies to contribute to the society.

Currently focusing on the development of software solutions by challenging myself in competitions, hackathons, and CTFs to keep abreast with the latest fast- paced and dynamic industry.

## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE AUG 2021– DEC 2024

Bachelor of Computing (Honours) in Computer Science  
Honours (Merit)

### SINGAPORE POLYTECHNIC APR 2016 – APR 2019

Diploma in Information Technology  
Diploma-Plus Certificate in Business

## EXPERIENCE

### CYBERSECURITY RESEARCH INTERN, CSIT – MAY 2023 –JUL 2023

- Learnt the following tools and skills for research work: Jadx, ADB, Ghidra, android reverse engineering
- Decompiled and traced an android APK to identify security features added to verify that it works
- Set up multiple virtual machines to capture application and network behaviour

### PROJECT TEAM OIC, 3RD SAF TRANSPORT BN NFSC – OCT 2019 – AUG 2021

- Before vehicle movement, paper based safety checklist needs to be done. No proof of date time as it could be backdated, paper based relates to additional paperwork handling by soldiers.
- Prototyped, developed, deployed web app safety checklist impacting over 10k personnels.
  - Gradual roll out among companies → battalions
- Meet and plan with Commanders for feature release and deployment

### FULLSTACK INTERN, ARCLAB PTE LTD – OCT 2018 – FEB 2019

- Develop and deploy features of the SaaS
- Implement monetisation efforts of the company to improve revenue
- Set up automated tests and notifies the CTO if there is an failure in the production environment
- Meet and plan with company executive for feature release and deployment

### IT ASSISTANT, COMMONWEALTH CAPITAL – FEB 2016 – APR 2016

- Tested and deployed iPad point of sales for several retail shops
- Decommission systems; Deployed and set up new computers and business telephone system for users

## SKILLS

### LANGUAGES & FRAMEWORKS:

Fluent: Java, JavaScript/TypeScript, NodeJS, Python, React, SQL, HTML & CSS

Rudimentary: C, C#, Golang, LaTeX

### TOOLS:

Git/GitHub, Bash, Linux, Amazon Web Services (AWS), Docker, Kubernetes, Firebase, JADX, ADB

## AWARDS

Code Xtreme Apps 2018 Open Category First place

World Skills Singapore 2019 Awarded Medallion for Excellence in Cloud Computing

## CERTIFICATES

Certificate of Attendance: Red Hat System Administration I (RH124)

Certificate of Attendance: Red Hat System Administration II (RH134)

Certificate of Attendance: Red Hat Enterprise Linux Automation with Ansible (RH294)

AWS Certified Solutions Architect - Associate 2018-2020

Validation No: FB8G3ZRKKN4QQVS4

Edusave Certificate of Academic Achievement 2017 & 2018

## PROJECTS

### (2023) PEERPREP/PEERCODE SOFTWARE ENGINEERING PROJECT

- Pair coding interview project where participants can do challenges with another person online concurrently
- Exercise to develop and deploy micro services architecture based applications
- Deployed the entire micro services onto AWS using AWS EKS
- Project Github: <https://github.com/franciszy/ay2324s1-course-assessment-g33>

### (2018) CODE XTREME APPS HACKATHON – FIRST PLACE

- In response to challenge #5 - Seamless AI on health, safety & orders & #6 - Autonomous drones & intelligent video analytics, we created a solution that uses drones to identify defects in infrastructure using AI.
- This solution allows for more efficient use of manpower to identify any cracks in buildings or bridges by allowing one operator to improve the reach of their expertise by offloading work to AI.

### (2017) INFOCOMM MEDIA DEVELOPMENT AUTHORITY IOT BOOTCAMP

- Ideated and proposed a IOT solution to remotely access older non smart device such as Air-Conditioning units and Fan.
- To reduce waste in the environment, instead of replacing them with newer ones, we can make use of its existing features to retrofit the device with newer capabilities with no modifications
- Project Github: <https://github.com/franciszy/RetroSmarter>

### (2017) CODE XTREME APPS HACKATHON FINALIST

- Ideated and provided a solution to the hot-desking problem statement
- Project Github: [https://github.com/franciszy/CXA\\_I-Only-Take](https://github.com/franciszy/CXA_I-Only-Take)

## TEACHING EXPERIENCE

Lab Teaching Assistant for CS2100 – Ensure students did their lab activities safely and graded lab sheets

Student Mentor for CS2103/T – Helped out the next batch of students with questions regarding Java and smoke testing their assignments

## CO-CURRICULAR ACTIVITIES

### NUS HACKERS – CORETEAM

- Organised weekly workshops to teach hacking/development tools (<https://www.nushackers.org/hackertoolbox>)
- Helper in Hack and Roll 2023; Largest student ran hackathon in Singapore (650 Participants)
  - Helped with logistics such as swag distribution / signage placement / judging ushering
- Organiser in the upcoming Hack and Roll 2024; Largest student ran hackathon in Singapore (Targeting 750 Participants)
  - Prizes procurement
  - Managing volunteers' schedules and their tasks
  - Logistics management, organising 1000KGs of swag from sponsors to give away to participants

### NUS STUDENTS' COMPUTING CLUB – WINTER WORKSHOP DIRECTOR

- Organised winter workshop with 350 hybrid participants in December 2022
- Recruited student teaching instructors and organised workshop content