

PERSONAL STATEMENT

In line with my interests to be more hands on in taking up meaningful projects, I have also joined a number of hackathons and co-curricular activities in order to expose myself to more projects beyond the scope of my course.

All of the projects which I have undertaken so far, be it external or academic, was due to my personal belief that I learn better when tasked with a hands-on project, on top of learning it straight from the books.

I had joined NUS Information Technology on 4 separate occasions over the course of 9 months, together with my project partner, Hong Wei Yang. My most recent position was as a Part-time IoT Intern under the NUS Student Work Scheme (NSWS). I was given the opportunity to expand on the work done over the Summer project to improve the capabilities of the Network Automation Portal for provision network devices to NUS Researchers.

Over the Summer of 2020, I had joined NUS Information Technology's Summer internship program to develop a sample prototype of the said automation portal. Previously, I had also joined their Winter internship program in December 2019 and was subsequently offered the NSWS position to continue work on their Wireless 24/7 Network Monitoring project.

Overcoming the challenges from working on technical projects in NUS Information Technology made me more invested to learn even more about what computer networks and web development. Within my academics, I decided to pursue Innovation and Design as a second major, where I undertook projects relating to space systems.

I believe that my hand-on approach to learning would greatly benefit me in any environment, and I would gladly put in the time and effort needed to contribute as much as I can.

EDUCATION

NUS

COMPUTER ENGINEERING

Second Major in Innovation and Design

Expected May 2022

CGPA: 4.06

LINKS

Github: @namiwa

LinkedIn: Khairul Iman

Website: khairuliman.com

SKILLS

PROGRAMMING

Proficient:

- JavaScript • Python
- Java • C/C++

Familiar:

- MySQL • Matlab
- Verilog • Assembly
- CSS

SOCIETIES

- iDP Student's Club, Dept. Head
- NUS Investment Society, Test Engineer
- Developer's Student Club, Web Developer

EXPERIENCE

NUS INFORMATION TECHNOLOGY | PROJECT INTERN

Aug 2020 - Dec 2020 | Part-time

- Extending the network automation project, currently working to improve useability and adding more testing features.

May 2020 - July 2020 | Full-time

- Working on a network automation project, attempting to optimise network provisioning for remote sensors to researchers on the campus network

Feb 2020 - Apr 2020 | Part-time

- Improved prototype dashboard UI, and converted the previous 2 tier architecture to a 3 tier architecture to improve security and scalability

Dec 2019 - Jan 2020 | Full-time

- Developed a prototype network sensor using a Raspberry Pi, Raspbian OS and Linux Networking Utilities
- Integrated wireless data collected to a web dashboard built using React.js, Redux.js and Express.js

NUS - CG2271 | LABORATORY TEACHING ASSISTANT

Aug 2020 - Dec 2020 | Part-time

- Assisting in conducting weekly laboratory teaching sessions
- Provided ad-hoc support to module coordinator for administrative activities

PROJECTS

STARTUP PROJECT | YWASTE

May 2020 - Present

We intend to tackle the issue of food waste in Singaporean households by creating a mobile application which can assist in tracking food expiry. The mockup of the application can be seen [here](#).

IDEATE 2020 | HACKATHON ORGANISING COMMITTEE

Aug 2020

As the Outreach and Development Head, I oversaw external engagement activities for students under the Innovation and Design Second Major. Organised the club's first online hackathon, seen [here](#).

EG3301R - ASI-304 | APPLYING AI AND ML TO SATELLITE DATA

Jan 2020 - Dec 2020

Currently working with a team of 4 developers to explore implementation with Tensorflow. The interim prototype can be seen [here](#).

NUS INVESTMENT SOCIETY | TEST ENGINEER

Oct 2019 - Jul 2020

Exploring with open source datasets provided from Data.gov, URA and OneMap APIs, we attempt to collect sufficient data to apply regression techniques to housing data. The report can be seen [here](#).

AWARDS

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| 2020 | Funding Awarded | Innovation & Enterprise Practicum School of Computing |
| 2020 | Award Granted | Association of Muslim Professionals STEM 2 nd Chance Award |
| 2019 | 1 st Place | ComfortDelgro Hackathon Move-in-Please 2019 |