

Khairul Iman

(65) 9832-6222

khairul.nasri895@gmail.com

<https://github.com/namiwa>

<https://www.linkedin.com/in/namiwa>

EXPERIENCE

National University of Singapore, Singapore — *Lab Teaching Assistant*

Jan 2022 - Apr 2022 (Part-time), Aug 2020 - Dec 2020 (Part-time)

- Mentored students to design, implement and build a maze clearing robot with **RTOSv2** and embedded programming with the **ARM-M0+** processor.

Sellgo, Silicon Valley — *Fullstack Engineering Intern*

Jan 2021 - Dec 2021 (Full-time), Jan 2022 - Feb 2022 (Part-time)

- Implemented and integrated **Websocket** communications for the **first time** in the existing **Django** backend with **Django-Channels & Uvicorn**.
- Developed a **Chrome Extension Scraper** using **Python, Chromium & Selenium** capable of working in **8 different regions**.
- Built extendable web scrapers in **Scrapy & Scrapyd**, along with designing a **MongoDB Atlas** database & proxy services to be able to scrape at a speed of **1+ million pages** a day.
- Designed **data visualization** with **D3.js, Django & Postgres**, working with a dataset size of **100GB+**.

NUS Information Technology, Singapore — *Project Intern*

Dec 2019 - Dec 2020 (Combination of Full-time & Part-time)

- Prototyped a **low-cost** network health sensor using **Raspberry Pis**, which is able to detect fluctuations in **Wi-Fi** strength from **5-10 meters**.
- Prototyped a **Flask, MySQL, Ansible, Cisco ISE** backend to provision internet to campus **IoT devices**.
- Used **React** to create a dashboard to view **real-time updates** from the network health sensor & overview of provisioned IoT devices.

EDUCATION

National University of Singapore, Singapore — *Computer Engineering*

Aug 2018 - May 2022, CGPA: 4.0/5.0

Second Major in Innovation & Design, with additional entrepreneurial exposure gained from undertaking the Overseas College program in Silicon Valley. Headed the Outreach & Development department in IDP's Student Club.

SKILLS

Python, Typescript, JavaScript, Git, Docker, HTML, CSS, C++, C, Java, Verilog, SQL, Excel, BigQuery, Word, PowerPoint

AWARDS

Innovation & Enterprise

Practicum Won a \$10K SGD grant for pitching a household waste tracking app.

Philip Yeo Grant Attained a \$5K SGD grant for entrepreneurial activities and exploration.

AMP-2nd Chance Study Award

Received a \$2K SGD for pursuing undergraduate studies in STEM.

ComfortDelgro Hackathon 2019

1st place team winner, pitched improvements to current SBS buses.

LANGUAGES

English, Malay, Bahasa (Basic)

PROJECTS

[Cander.io](#) startup project to create a travel based social app.

[Ideate 2020](#) organized an online hackathon for IDP Student's Club.