

# Khairul Iman

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## EDUCATION

### National University of Singapore

Singapore | May 2022

COMPUTER ENGINEERING WITH SECOND MAJOR IN INNOVATION & DESIGN

Teaching Assistant: CG2271: Real Time Operating Systems

CCAs: IDP Student Club, NUS Investment Society, Google Developer Student Club

Coursework: Data Structures and Algorithms, Computer Networks

## WORK EXPERIENCE

### National University of Singapore | LAB TEACHING ASSISTANT

Singapore | Jan 2022 – Apr 2022, Aug 2020 – Dec 2020

- Provided assistance, guidance and mentorship in their project coursework, where they are to design, implement and build a maze clearing robot using **RTOSv2** and embedded programming with **Cortex ARM-M0+** processor.

### Sellgo | FULLSTACK ENGINEERING INTERN

Silicon Valley | Jan 2021 – Feb 2022

- Implemented and integrated **Websocket** communications for the first time in the existing **Django** backend using **Django-Channels** & **Uvicorn**.
- Using **Python**, **Chromium** & **Selenium**, implemented a portable, multi-platform **Chrome Extension Scraper**, which works on **Windows**, **MacOS** & **Linux**.
- Built extendable web scrapers using **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.
- Used **3d.js**, **Django** & **Postgres** to implement **data visualization** for a dataset with size of **100GB+**.

### NUS Information Technology | PROJECT INTERN

Singapore | Dec 2019 – Dec 2020

- Prototyped a **low-cost** network health sensor using **Raspberry Pis**, which is able to detect fluctuations in Wi-Fi strength from **5-10 meters**.
- With **React**, **Node** & **MySQL**, built a web dashboard capable of reporting the network sensing results in **real-time**.
- Integrated **Ansible** playbook scripts & **Cisco ISE** endpoints to **provision internet access** for IoT devices.
- Enabled **Microsoft ADFS on Flask**, to enable **SSO Authentication** with existing campus wide network accounts.

## PROJECTS & AWARDS

### Cander.io

DART, FLUTTER, FIREBASE

Building a travel-focused social media application, using Google's Flutter and Firebase frameworks & platform to speed up development targeting web, iOS and Android.

### Ideate 2020

ANGULAR, MONGODB, HEROKU

Organised the IDP Students Club's first ever online hackathon as the Outreach & Development Head. *Forked open-sourced Quill* project to create a separate website for students registration, managing about 30 undergraduate teams

### School of Computing Innovation Practicum 2020

REACT NATIVE, TYPESCRIPT, AMAZON LAMDA

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

## SKILLS

Languages: Python, Dart, C/C++, Bash, Java, Verilog, SQL

Web Development: TypeScript/JavaScript, HTML/CSS

Technology: Git, AWS, GCP/Firebase, Azure, Docker,  $\LaTeX$ , MongoDB, Flutter, React Native, Ansible

Software: Excel, PowerPoint, Word, Figma, Adobe XD, Blender, OBS