Khairul Iman

Final year student at National University of Singapore. Interned at 2 companies working on full stack development and data analytics roles.

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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 using **RTOSv2** and embedded programming with the **ARM-M0+** processor.

Sellgo, Silicon Valley, SV — *Fullstack Engineering Intern*

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

- Implemented communication endpoints using **Django**, **Django-Channels** & **FastAPI** to create new **HTTPs** & **Websocket** endpoints.
- Using **Python**, **Chromium** & **Selenium**, implemented a portable, multi-platform Chrome extension scraper.
- 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 **Django** & **Postgres** to implement visualization for a dataset with size of **100GB+**.
- Used **Git** & **Docker** for the containerization and scalable deployment of the above systems & implementations.

NUS Information Technology, Singapore — *Project Intern*

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

- Prototyped a network health sensor using **Raspberry Pis**.
- Prototyped a web application to provision internet access to **IoT devices** with **Cisco ISE APIs** & **Ansible**, using **Flask** & **MySQL**.

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 at Silicon Valley.

SKILLS

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

AWARDS

Innovation & Enterprise Practicum Awarded a $10K SGD grant for pitching a household waste tracking app.

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

AMP-2nd Chance Study Award Awarded $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.