

Khairul Iman

Software Engineer based in Singapore, with 2 years of experience building fullstack systems in JavaScript & Python, with a focus area in building performant websites.

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[website](#) | [linkedin](#) | [github](#)

EXPERIENCE

Ruckus Wireless, CommScope Solutions, Singapore - Software Engineer

July 2022 - Present

- Implemented and tested complex network analytics & management dashboard (Ruckus ONE) with **Antd.js**, **ECharts.js**, **React.js** & **TypeScript**.
- Expanded microservices architecture by adding new frontend & backend services with **Docker** & **Kubernetes**.

National University of Singapore, Singapore — Lab Teaching Assistant

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

- Mentored over **60+ undergraduate students** to design and build a maze clearing robot with **RTOSv2** & **C++ embedded programming** on the **ARM-M0+** microcontroller for course **CG2271 (Real-Time Operating Systems)**

Sellgo, Silicon Valley — Fullstack Engineering Intern

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

- Built web scrapers in **Scrapy** & **Python**, along with administering **sharded MongoDB** to ingest data scraping at a speed of over a **million pages a day**.
- Designed **data visualization dashboard** with **D3.js**, **Django** & **Postgres**, with a dataset size of **100GB+** using optimal time-series partitioning to visual data in under 10 seconds.

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 self-help web portal for university researchers to provision internet to **IoT devices** with **Flask**, **MySQL**, **Ansible** and **Cisco ISE REST APIs**.

EDUCATION

National University of Singapore, Singapore — Computer Engineering

Aug 2018 - May 2022, CGPA: 3.90 / 5.0

Second Major in Innovation & Design, with entrepreneurial exposure gained from the Overseas College Program (Silicon Valley).

SKILLS

Typescript, JavaScript, Python, Git, Docker, Kubernetes, HTML, CSS, C++, C, Bash, English, Malay, Bahasa Indonesia (Basic)

AWARDS & ACCOLADES

ComfortDelgro Hackathon 2019

1st place team winner, pitched improvements to crowd management for current Singapore buses.

Philip Yeo Grant

Won a \$5K SGD grant for building startup and living expenses for NOC.

Innovation & Enterprise Practicum

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

PROJECTS

TinyCompiler in Rust

Attempt to build a small c-subset compiler in Rust & explorations with C/C++ & OpenGL to learn computer graphics