

Khairul Iman

Software Engineer based in Singapore, with 2 years of experience developing fullstack systems in JavaScript, Python & C++ with a focus area in making blazingly fast websites.

EXPERIENCE

Ruckus Wireless, CommScope Solutions, Singapore - *Software Engineer*

July 2022 - Present (Full-time)

- Created core UI components & pages for web network analytics & management dashboard, **Ruckus ONE**. Optimised **ECharts & React** to render **complex time series charts with 100,000+ data points** in under **10 seconds**.
- Authored highly customised interactive behaviour using **React Hooks** surpassing Antd.js **component limitations** for **Ruckus ONE**.
- Developed **containerised** scripts in **Docker** for new services and expanded **existing microservices architecture** using **Bash, Kubernetes & Helm**.

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

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

- Mentored 2 different batches of **60+ undergraduate students** to design and assemble a maze clearing robot running **RTOSv2 & C++ embedded programming** on the **ARM-M0+** microcontroller for **CG2271: Real-Time Operating Systems**.

Sellgo, Silicon Valley — *Fullstack Engineering Intern (NUS NOC Program)*

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

- Built web scrapers in **Scrapy & Python**, along with administering **3 instances of sharded MongoDB replicas**, scraping over **2 million pages a day**.
- Led the implementation of keywords database features, from **designing ETL data pipelines, storage architecture & extended existing Django-backend services** to consume and present **100GB+** of analytics data to end users.

NUS Information Technology, Singapore — *Project Intern*

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

- Prototyped a **low-cost** network health sensor with **Raspberry Pis**, which is able to detect fluctuations in **Wi-Fi** strength from **5-10 metres**.
- Designed a **self-help web portal** for university researchers to provision internet access 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: 3.91 / 5.0

Bachelor of Engineering (Honours) with second Major in Innovation & Design and entrepreneurial exposure gained from the Overseas College Program (Silicon Valley).

(+65) 9832-6222

khairul.nasri895@gmail.com

[linkedin](#)

SKILLS

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

AWARDS & ACCOLADES

ComfortDelgro Hackathon 2019

Led a 5 man team to win first place for pitching improvements to Singapore buses for better crowd management.

Philip Yeo Grant

Awarded a \$5K SGD grant for exploring startup ideas & living expenses.

Innovation & Enterprise

Practicum

Awarded a \$10K SGD grant for pitching a household waste tracking app to NUS School of Computing.

PROJECTS

khairuliman.com

Personal site built with **Gatsby.js & TypeScript**, converting **Markdown** files to blogging articles.

TinyCompiler in Rust

Building a **small C-subset compiler** in **Rust** & explorations with **C, C++ & OpenGL** to learn computer graphics.

PropertyGuru Scraper

Adapted **Python** PropertyGuru **web scraper** for Singapore, complete with **WhatsApp Automation**.

ideate2020

Spearheaded the Innovation and Design Student's Club **first ever virtual design hackathon**.