




# KAR RUI LAU

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## EXPERIENCE

- Oct 2021 – Present **Senior Software Engineer** **Open Government Products**  
Feb 2020 – Oct 2021 **Software Engineer**  
fulltime  
I am mainly responsible for OGP's Design System and FormSG, an official Singapore Government's form builder application. I was also part of the team tasked to work on Singapore's COVID-19 response.
- Epic lead for two major frontend and backend migrations for FormSG as part of tech debt cleanup, resulting in improved developer confidence and experience when implementing features.
    - Successfully scoped and contributed significantly to the migration of FormSG's frontend framework from AngularJS to modern React.
    - Successfully scoped and completed full rehaul of FormSG's backend API endpoints (with backwards compatibility), which includes renaming, simplifying, and refactoring endpoints to a more RESTful and meaningful state.
  - Owner and maintainer of OGP's internal design system, released as an npm package. This has allowed for much faster product iteration, visual continuity and consistency across OGP products.
  - Built the entire clinician-facing frontend application for Singapore's COVID-19 Appointment System to allow clinic staff to manage appointments and patients coming in for their vaccinations.
  - Wrote lambda pipelines to automate parts of patient and case management relating to Singapore's COVID-19 Endemic response.
- Node.js / React.js / TypeScript / Design Systems / StorybookJS
- May – Aug 2019 **Software Engineer Intern, Google Pay** **Google Singapore**  
internship  
Completed and had full ownership of a new feature in the (then) Android application, including but not limited to high level architecture, design decisions, implementation, and testing.  
Java / Android
- May – Aug 2018 **Frontend Software Engineer Intern** **INTELLEX**  
internship  
Implement features and components related to the design overhaul of the main enterprise React app. In addition, I also refactored many tightly coupled components into pure functional components, resulting in improved readability and testability.  
JavaScript / React

## EDUCATION

- 2016 – 2019 **B.Comp (Hons) in Computer Science** **National University of Singapore**  
CAP: 4.45/5.00, Honours (Distinction)

## SIDE PROJECTS

- 2020 **Reify**  
 iOS Appstore  karrui/goals-flutter  
A goal tracking app built with Flutter for users to track their goals. Reify is an app that allows you to create virtual goals you can contribute to whenever you catch yourself having extra money. Built to explore a new programming language, and to try out designing a "native" app all by myself.  
Flutter / Dart / Firebase
- 2018 **CAP Calculator**  
 cap.karrui.dev  karrui/cap-calculator  
A TypeScript React application for NUS undergraduates to calculate their current CAP (Cumulative Average Point), helping them to visualize what grades are needed to hit their goal, or what their current grade is.  
TypeScript / React / Firebase / Netlify

## HOBBIES

I enjoy building and using ergonomic keyboards, building 3D printers, building out my smart home.