

Kar Rui LAU

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EDUCATION

Dec 2019 **B.Comp (Hons) in Computer Science**, *National University of Singapore*
CAP: 4.45/5.00
2013 **Diploma w/ Merit in Business Administration**, *Singapore Polytechnic*

SKILLS & COMPETENCIES

Programming Languages Java, JavaScript, C, C++, TypeScript, Python, CSS, HTML
Frameworks & Technologies React, Android Development, Redux, Vue, Bootstrap 4, JUnit 4, git, PostgreSQL

WORK EXPERIENCE

- May - Aug 2019 | **Software Engineer Intern, GOOGLE, Singapore**
- Interned for 14 weeks as part of the Google Pay team in Singapore
 - Completed and had full ownership of one new feature in the Android application, including but not limited to high level architecture, design decisions, implementation, and testing
 - Work closely with peers to ensure good architectural design and strong software engineering principles in code committed
- Java Android
- May - Aug 2018 | **Front-end Software Engineer (Intern), INTELLLEX, Singapore**
- Assist in the development of applications and features for the enterprise web application
 - Refactor tightly coupled components into pure functional components, improving testability
 - Work closely with the designer to ensure design is followed
 - Collaborate with product managers and other developers to design and implement APIs
- JavaScript React Redux Bootstrap 4 SASS GitLab
- Jan - May 2018 | **Teaching Assistant (CS2103 Software Engineering), NATIONAL UNIVERSITY OF SINGAPORE, Singapore**
- Facilitate discussions on software engineering principles and review students' code
- Java GitHub

PROJECTS

More of my projects can be found on my website, [karrui.dev](#)

CAP CALCULATOR - a React TypeScript Web App 2018

[cap.karrui.dev](#) [github.com/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.

React TypeScript Firebase Netlify

STATIC PROGRAM ANALYSER FOR SIMPLELANG - a C++ Desktop App 2018

i Code privatised (due to school policy) but available on request

A C++11 desktop static program analyser application. Worked extensively on the tokenizer and the parser for parsing the given input source code. Made sure code followed design principles such as Open-Closed Principle. Wrote unit, integration and system tests using equivalence partitioning.

C++

MONEY JAR - a React TypeScript Web App 2018

[jars.karrui.dev](#) [github.com/karrui/money-jar-web](#)

A sharable, online "money" jar progressive web application to keep track of contributions and how far one is from their goals. Built with TypeScript, using React as the front end and Firebase as the backing database. Hosted with Netlify.

React TypeScript Firebase Netlify

CHOPE GOD - an iOS App 2018

i Hack & Roll 2018 Hackathon "Top 8" Winner

An iOS application hackathon submission for Hack & Roll 2018. Use Apple's ARKit to reserve seats at a meeting room or table by marking the spot with an AR pin. Firebase was used as the backing database to store coordinates of the dropped "pins".

Swift Firebase