Kar Rui Lau

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🎓 Education

Expected 2020	**B.Comp (Hons) in Computer Science**, *National University of Singapore*
	CAP: 4.38/5.00
2013	**Diploma w/ Merit in Business Administration**, *Singapore Polytechnic*
	GPA: 3.83/4.00

☰ Skills & Competencies

Programming Languages	**Java**, **JavaScript**, C, C++, TypeScript, CSS, HTML
Frameworks & Technologies	**React**, Redux, Express, Node, Vue, Bootstrap 4, Jest, JUnit 4, **git**, **PostgreSQL**

💼 Work Experience

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**, National University of Singapore, Singapore

For CS2103, Software Engineering
- Review student's weekly progress of their module project on their Github pull requests
- Facilitate discussions on system analysis, modelling and design, implementation, testing, and various software engineering principles

`Java` `GitHub`

💻 Projects

More of my projects can be found on my website, 🔗 karrui.me

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 Progressive Web App · 2018
🔗 jars.karrui.me   ⬡ 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`

Taskrr - an Express Web App · 2018
⬡ github.com/karrui/taskrr
A task matching web application where users can put out tasks they need done, and other users can bid for the right to complete those tasks (Think Fiverr or Taskrabbit). Used to be hosted on DigitalOcean, but has since been decommissioned.

`JavaScript` `PostgreSQL` `Express` `DigitalOcean`

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`