

Liaw Siew Yee

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About Me

Self-driven computer science undergraduate, with a strong desire to learn. A great team player who takes initiative and makes valuable contributions. Passionate about mobile development and software engineering. Currently seeking opportunities for software engineer roles.

Skills

PROGRAMMING LANGUAGES

JavaScript*, Java*, Python, C, SQL*, Kotlin*

WEB DEVELOPMENT

ReactJS*, ExpressJS*, NodeJS, VueJS

MOBILE DEVELOPMENT

Android*, React Native

OTHERS

Firebase*, Git*, Hazelcast*, GCP, AWS, AdobeXD

*Indicates working experience

Leadership

FLOORBALL CAPTAIN | SCHOOL OF COMPUTING | JUN 2019 – AUG 2019

- Led and represented the women's floorball team in the School of Computing for the university-wide games.
- Coordinated trainings and spearheaded team strategies.

FLOORBALL GROUP HEAD | COLLEGE OF ALICE & PETER TAN | APR 2019 – APR 2020

- Led, organised and hosted floorball sessions for groups as big as 50.
- Equipped newcomers with essential floorball skills for college games.

Education

BCOMP (HONOURS) IN COMPUTER SCIENCE | NATIONAL UNIVERSITY OF SINGAPORE | AUG 2018 – MAY 2022

- CAP: 4.35/5
- Relevant Coursework: Software Engineering and Databases

Experience

SOFTWARE ENGINEER INTERN | NINJA VAN | MAY 2021 – DEC 2021

- Developed several features that helped to improve visibility of parcel delivery process and user experience for Ninja Van's Android application with over 46,000 daily active users.
- Improved application reliability by fixing crashes that affected up to 2,000 users in a day.
- Improved application performance by refactoring legacy code bases to follow the clean architecture and leverage on asynchronous code execution.
- Worked closely with product owners, product designers, QA team and fellow engineers in a rigorous SCRUM environment.

CLOUD ENGINEER INTERN | HOUSING & DEVELOPMENT BOARD | DEC 2020 – JAN 2021

- Developed a PERN-stack (PostgreSQL/Express/React/Node) web page for HDB's customer satisfaction survey e-service, which contained highly complex frontend elements.
- Deployed application on Amazon Web Services (AWS) using Amazon EC2 instances and Amazon RDS to assist with HDB's migration to the cloud as part of the Government Commercial Cloud (GCC) initiative.

MOBILE APP DEVELOPER INTERN | HOUSING & DEVELOPMENT BOARD | JUN 2020 – AUG 2020

- Developed an Android prototype of HDB's in-house crisis management application using React Native and Firebase in preparation for the application's upcoming version release.
- Proposed new features and enhancements to existing features that improved overall user satisfaction.
- Support senior system analysts with in-depth research on the suitability of various mobile application platforms including PWA (Progressive Web Applications), mobile native applications, React Native and Flutter for the application, providing recommendations that could cut development costs by up to 50%.

Projects

SPJ (SELECT-PROJECT-JOIN) QUERY ENGINE | JAN 2021 – APRIL 2021

- Built a simple query engine that supports basic operations used by commercial relational databases for queries, including Block-Nested Joins and the Orderby operator.
- Led team through multiple sprints to complete project in a timely and organised manner.

KRAPFOOD (FOOD DELIVERY SYSTEM WEB APPLICATION) | FEB 2020 – MAY 2020

- Developed a PERN-stack web application that models a food delivery system.
- Designed and implemented complex UI elements using ReactJS for the app's web page.
- Modelled complex database design using ER diagrams and set up REST APIs for app.

XPIRE (EXPIRY DATE TRACKER CLI APPLICATION) | AUG 2019 – NOV 2019

- Built a tracker that automates the transfer of expired items to a shopping list with Java, JavaFX and Gradle.
- Implemented automated testing and integration using Travis CI, thereby ensuring minimal bugs with high test coverage.