

LOH JIAN RONG

hello@jianrong.dev · 9113 8851 · <https://jianrong.dev> · [GitHub](#) · [LinkedIn](#)

EDUCATION

National University of Singapore

Bachelor of Computing in Computer Science

- NUS Merit Scholarship Recipient

Singapore

Aug 2022 - Present

EXPERIENCE

99 Group | Junior Software Engineer (Part-time Consultant)

Offered position for accomplishing tasks at a high quality and speed

Singapore

Aug 2022 - Present

- Wrote automated scripts to convert all images to modern WebP format, reducing file sizes by 56% and positively improving cross-site performance (**Bash, Python**)

99 Group | Frontend Engineer Intern

Development on the SEO demand team for the consumer-facing 99.co property marketplace

Singapore

Jan 2022 - Jul 2022

- Developed application components in an Agile environment, providing estimates, identifying potential blockers, recommending alternative solutions and collaborating with product managers, designers and other engineers
- Created a reusable ([open-sourced on company's technical blog](#)) React Hook from scratch to convert legacy adaptive components to a modern responsive web layout (**JavaScript, React, Redux**)
- Adopted Test-Driven Development for new features to ensure no regressions in user experience (**Jest, TDD**)
- Implemented automated process to ensure Pull Requests follow convention (**GitHub Actions, YAML**)
- Reduced Mobile Usability Issues by 100%, from **1.5k invalid links to 0 in 3 months**
- Participated in team effort to eliminate Core Web Vitals issues, from over **10,400 to 0**
- Boosted organic performance by up to 9% week-on-week and up to **145% year-on-year**
- Improved organic search result for 'new launches' from **6th spot to 1st spot**

PROJECTS

Crypto/NFT Watchlist

Watchlist for crypto and NFT enthusiasts to monitor their assets

Apr 2022

[GitHub Repository](#)

- Optimised Search Engine performance through Server-Side Rendering (**Next.js, TypeScript, SEO**)
- Connected application to CoinGecko's Crypto API
- Stored user data on Redis for quick retrieval (**Upstash**)
- Deployed containerized application on Google Cloud Run (**Docker, Google Cloud Platform**)

Traceify

Web application for music lovers to monitor their music taste, TraceTogether-style

Sep 2021

[GitHub Repository](#)

- Replicated components in TraceTogether application (**React, TailwindCSS**)
- Connected server with Spotify Web API through OAuth2.0 protocol (**Express.js**)

DriveSG

Mobile quiz application for drivers-to-be to ace their theory tests

Aug 2021

[GitHub Repository](#)

- Extracted text from over 800 images using Optical Character Recognition to create JSON data for questions (**React Native, Tesseract.js**)
- Managed backend on Firebase for easy retrieval and reusability for future extensibility (**Firebase**)

ACTIVITIES

NUS Developer Student Club | Software Engineer

*Fullstack development for [Project Siew Dai \(Diabetes Singapore\)](#) using **React** and **Express***

Aug 2022 - Present

Electron.js Documentation Contributor

Documentation for JavaScript framework used by Visual Studio Code and Figma

Apr 2022

[GitHub Repository](#)

CodeFiesta 2021

Led a team of 3 in GovTech's hackathon

Jun 2021

SKILLS

Frameworks: React (Next.js), Express.js, React Native, Jest, FastAPI, Django

Languages: JavaScript, TypeScript, Python, Golang, Bash, YAML, SQL

Others: PostgreSQL, MongoDB, Git, Docker, Google Cloud Platform, Postman, Redis, CI/CD Tools