

# LOH JIAN RONG

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## 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)

Singapore  
Aug 2022 - Present

- Offered position for accomplishing tasks at a high quality and speed

### 99 Group

Frontend Engineer Intern

Singapore  
Jan 2022 - Jul 2022

- Created a reusable React Hook from scratch to convert legacy adaptive components to a modern responsive web layout (**JavaScript, React, Redux**)
- Reduced Mobile Usability Issues by 100%, from **1.5k invalid links to 0 in 3 months**
- Eliminated 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**
- Presented technical proposal to VP & engineering team and received positive feedback from mentor
- Documentation is currently open sourced on [company's tech blog](#)
- Developed [New Launch Directory](#), [New Launch Showflat Reviews](#), [New Launch Reviews Directory](#), [Calculators](#)
- Organic search result for 'new launches' improved from **6th spot to 1st spot**
- Adopted Test-Driven Development for new features to ensure no regressions in user experience (**Jest, TDD**)
- Implemented automated process to ensure that Pull Requests are semantic and follows company's convention (**GitHub Actions, YAML**)
- Crafted concise internal documentation for niche engineering practices to streamline the onboarding process

## PROJECTS

### Electron.js Documentation Contributor

Documentation for JavaScript framework used by Visual Studio Code and Figma

Apr 2022  
[GitHub Repository](#)

- Improved user interface of documentation for developers using JavaScript

### Crypto/NFT Watchlist

Watchlist for crypto and NFT enthusiasts to monitor their assets

Apr 2022  
[GitHub Repository](#)

- Used Server-Side Rendering technique to improve Search Engine Optimization (**Next.js, TypeScript**)
- 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 using 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**)

## 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