

# Loh Jian Rong

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Year 2 CS Student with domain knowledge in real estate and sustainable finance. Looking for 2024 Summer Internships.

## EDUCATION

**BSc in Computing, Computer Science, Expected Graduation Year 2025**

**National University of Singapore, Singapore**

- GPA: 4.88 / 5.00 (First Class Honours)
- NUS Merit Scholarship Recipient – Highly coveted scholarship awarded to high calibre individuals
- Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Linear Algebra

## WORK EXPERIENCE

**London Stock Exchange Group, Singapore | Software Engineer Intern | May 2023 – Present**

Full-stack development for the Sustainable Finance Innovation (SFI) team

- SFI is part of LSEG Labs, delivering fintech solutions to enable businesses to track carbon emissions using scenario analysis

**Source Academy, Singapore | Software Engineer Intern | Jan 2023 – Apr 2023**

Added a new variation of the Source language to enable parallel processing using the GPU

- Source Academy is an open-source platform used to teach NUS undergraduates foundational programming concepts
- Integrated the latest WebGPU standard into Source to parallelize audio processing using the GPU, resulting in performance improvements by up to 20 times

**Google Developer Student Club NUS, Singapore | Software Engineer | Aug 2022 – May 2023**

Full-stack development for Project Siew Dai, a stakeholder management system for Diabetes Singapore

- Implemented site-wide authorization features using React, Express, TypeScript, and PostgreSQL

**99 Group, Singapore | Software Engineer Intern | Jan 2022 – Dec 2022**

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

- 99 Group is a leading online real estate marketplace operating in Southeast Asia
- Created a [reusable React Hook](#) from scratch to convert legacy adaptive components to a modern responsive web layout (JavaScript, React, Redux)
- Initiated implementation of an automated process to ensure pull requests follow company's convention, resulting in cleaner commits, boosting developers' productivity by 10% (GitHub Actions)
- Eliminated Mobile Usability and Core Web Vitals issues, from 1,500 to 0 and from 10,400 to 0 respectively
- Boosted organic performance by up to 9% week-on-week and up to 145% year-on-year
- Wrote automated Python and Bash scripts to convert all images to modern WebP format, reducing file sizes by 56%

## SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, Golang

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

**Others:** Git, Unix, Docker, AWS, GCP, Heroku, Postman, SQL (PostgreSQL), NoSQL (MongoDB), Serverless

## PROJECTS

**[Gossip With Go](#) | [GitHub Repository](#) | Dec 2022**

Full-stack web forum built with React, TypeScript, Golang, Gin, and PostgreSQL

- Features include rich text editors, image uploading, and usage of OpenAI's GPT AI model
- Hosted frontend build files from Docker image on AWS S3 bucket, which is served through AWS CloudFront
- Deployed backend's Docker image on an AWS EC2 instance

**Web3 Watchlist | [GitHub Repository](#) | Apr 2022**

Full-stack web application for crypto and NFT enthusiasts to monitor online assets

- Connected application to CoinGecko's crypto API and stored used data on Redis for quick retrieval
- Deployed Docker container on Google Cloud Run for easy scalability

**[DriveSG](#) | [GitHub Repository](#) | Aug 2021**

Mobile quiz application built with React Native and Firebase for drivers-to-be to ace theory tests

- Extracted text from over 800 images using Optical Character Recognition to create JSON data for questions

## EXTRA-CURRICULAR ACTIVITIES

**Conjunct Consulting | Trainee | Jan 2023 – Mar 2023**

**Seedly | Student Ambassador | Aug 2022 – May 2023**