

Yap Ho Wen

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github.com/howen02 • howen.vercel.app

I'm currently a Full-Stack Engineer working at a Web3 startup. We've recently launched a token trading platform with an off-chain AMM using Sveltekit, Typescript and Firebase, accumulating 70,000 SGD in volume within 24 hours.

EDUCATION

Bachelor of Computing in Computer Science

Aug 2022 - Present

NATIONAL UNIVERSITY OF SINGAPORE

- MOE Tuition Grant Holder
- Relevant Course Work: Parallel Computing, Operating Systems, Big Data Systems for Data Science, Software Engineering, Database Systems, Information Security, AI & Machine Learning

WORK EXPERIENCE

Full Stack Software Engineer

Jul 2024 - Present

Rushlabs

Remote

- Architected a high-performance off-chain trading platform using **SvelteKit**, enabling users to launch tokens effortlessly
- Drove rapid adoption, achieving **80,000 SGD** in trading volume and **1,000 transactions** within 24 hours of launch
- Optimised backend performance by implementing **Firebase Schedule Functions**, reducing API calls by **90%**
- Engineered **real-time components** for chat, transactions, and trading cards using efficient **polling mechanisms**, ensuring data accuracy and enhancing user experience
- Led the development of a comprehensive profile page, incorporating advanced features such as **portfolio tracking**, **referral systems**, and **secure balance withdrawals**
- Implemented **functional programming** paradigms and **promise chaining** throughout the codebase, resulting in side-effect-free and readable code

Full Stack Software Engineering Intern

May 2024 - Aug 2024

Oyen Insurance

Kuala Lumpur, Malaysia

- Refactored **800+ lines** of legacy code in the claims system, implementing a **scalable** and **maintainable** design
- Resolved **critical security vulnerabilities**, enabling the insurance dashboard app to pass **Bank Negara Malaysia's** penetration test and secure entry into **BNM's Regulatory Sandbox program**
- Implemented **Zustand** state management with **HTTP cookie** integration, enhancing data security
- Optimised database queries, improving internal team efficiency on **Retool** by **180%** and reducing claims processing time
- Developed reusable front-end components and APIs using **NextJS** and **Prisma**, with data from a **100,000+ entry** database
- Redesigned file uploader component with **Ant Design**, incorporating robust file extension validation that eliminated malicious file uploads to **S3 storage**

PROJECTS

JSON parser [↗](#)

- Built a JSON parser with Golang to determine the validity of a JSON object
- Created a lexer to tokenise the input before validation

golink [↗](#)

- URL shortener built with Golang, implementing features such as URL shortening, lengthening and rate limiting with goroutines
- Utilised Golang's native testing package to test API features
- Implemented shortening of URL via hashing with SHA256

SKILLS

Tools: Git, Github, Docker, Vercel, PostmanAPI, DBeaver, Jira, Slack

Programming Languages: TypeScript, Python, Go, Java, C, SQL

Frameworks & Libraries: SvelteKit, NextJS, Remix, React, Tailwind, Zustand, Prisma

ORGANIZATIONAL & VOLUNTEER EXPERIENCE

Head of Tech

Jul 2024 - Present

Google Developer Student Club

Singapore

Leading a team of 12 tech associates while orchestrating efforts to organise monthly technical workshops

REFERENCES

Ray Gan (Senior Software Engineer at Oyen) • <https://www.linkedin.com/in/rgbk/>

LANGUAGES

English (Native proficiency) • **Mandarin** (Native proficiency) • **Cantonese** (Professional working proficiency)