

Yii Kuo Chong

SOFTWARE ENGINEER · TYPESCRIPT DEVELOPER

☎ (+60) 14-881-7836 | ✉ byu1628@proton.me | 📷 gohanko | 🌐 gohanko

Summary

Started my software journey with freelancing, building landing pages and backend APIs (Python/Django). Eventually found a job as a software developer working on a real-time trading application with 2.5M+ users, and \$650B+ monthly volume (React apps and Perl5 microservices).

Decided to go back to university, and started my own consultancy business while managing my responsibilities as a full time student where I completed 5 front-end, and back-end projects from companies all around the world. All in all 6 years of software development experience.

Skills

Languages	Typescript/Javascript, Python, Kotlin, Perl5
Frontend	React, Next.js, Zustand, WebSocket, SASS/LESS, Jetpack Compose
Backend	Django, Flask, Scrappy, Express.js, PostgreSQL
Foundational Knowledge	REST API Design, Basic CI/CD, Data Structures & Algorithms, MIPS ISA

Work Experience

TimberOne Software (My Freelance Branding)

Remote

FULL STACK ENGINEER, PROJECT BASED (PART-TIME)

Feb. 2021 - Dec. 2024

- Managed over 5 end-to-end projects, liaising directly with clients in Malaysia, Japan and Australia. 5/5 of the projects were successfully delivered.
- Developed a REST API that integrate with a conversational AI, resulting in a successful pitch to investors with over 100k monthly transactions.
- Created a Python utility library to convert markdown text for multiple social media channels which reduced templating time by 5x.
- Assisted in development of an AI-powered motion tracking app that transformed motion data into anime-style comics.
- Refactored a motion tracking application by converting non-react code to react, boosting code maintainability and reducing developer hours.
- Converted Figma designs into reusable React components and pages, resulting in reusable component libraries that sped up development.

Deriv Services Sdn. Bhd.

Cyberjaya, Selangor, Malaysia

SOFTWARE DEVELOPER, FRONTEND/BACKEND DEPARTMENT

Dec. 2018 - Dec. 2020

- Developed a system to implement raw canvas components in a canvas based charting library with a layering system to make sure components are drawn in proper order. This makes it possible for the canvas to respond to React events.
- Implemented chat feature through API integration with SendBird for a P2P money exchange system reaching 38K active users, and \$100M+ exchanged.
- Engineered a backend service for automating transactions which massively reduced Finance & Accounts Department's workload.
- Assisted recruitment efforts by proctoring hackathons and evaluating over 600 tech candidates which resulted in 10+ hires.
- Collaborated with UI/UX teams to implement design specifications across web applications. Utilizing tools like Abstract, Zeplin, and Invision.
- Ensured software compliance with regulatory standards through close collaboration with the compliance team.

Freelance

Malaysia

SOFTWARE ENGINEER, PROJECT BASED

Jul. 2017 - Jun. 2018

- Developed a REST API for an over-the-counter payment tracking system, enabling real-time tracking and reporting for payment transactions.
- Built landing pages for marketing firms, e.g one for Smart Manufacturing Exhibition 2018.

Notable Projects

Deriv Trader

Deriv Sdn. Bhd.

COMMERCIAL PROJECT

Dec. 2018 - May. 2020

- A trading application used to provide clients with options trading functionality. It's a websocket, event based React application with a custom charting library. The application is a rewrite of an older application named SmartTrader.
- Contributed in the rewrite effort. Responsibilities include implementing pixel-perfect code based on designs given by UI/UX team, and implementing existing features from SmartTrader.
- Developed a system to implement raw canvas components in the charting library with a layering system to make sure components are drawn in proper order. This makes it possible for the canvas to respond to React events.

Automated Payment Processing Service

Deriv Sdn. Bhd.

COMMERCIAL PROJECT

June. 2020 - Dec. 2020

- An internal payment processing service that automates certain payments processes. For example, automatically approve refunds under \$5.
- Participated in designing the API, and database.
- Developed major parts of the system including the APIs, tests, and CI/CD pipeline for automated testing and deployment.
- Built it in the course of 4 months in a team of 4 using NodeJS (TypeScript, Hapi.dev), PostgreSQL, and Docker.

Asanitize

Open Source

PERSONAL PROJECT

May. 2020 - Present

- A simple commandline tool to bulk delete messages/posts from social media accounts.
- Reversed engineered Discord's user API because official API is only for bots.
- Implemented a custom Discord user API library in the application and hooked it up to business logic.
- Written in Python, and repository is at: <https://github.com/gohanko/asanitize>

Datarice

University Tunku Abdul Rahman

FINAL YEAR PROJECT

Mar. 2023 - Aug. 2023

- A real time IOT data visualisation and debugging tool written in Typescript, and NextJS.
- Implemented function to display data in real time using websockets, and ability to read files and update the charts as data comes in.
- Repository: <https://github.com/gohanko/datarice>

SidewayQR (REST API & Android App)

University Tunku Abdul Rahman

UNIVERSITY COURSE PROJECT

Jul. 2024 - Sep. 2023

- Backend REST API and Android application for a QR attendance scanning software.
- REST API built using Typescript, Express, and sequelize (an ORM library). Responsible for providing QR attendance functionalities (QR scanning, QR display, etc).
- Android application built using Kotlin, Jetpack Compose, and Material 3. It's an implementation to provide the functionalities to the user.
- REST API and Android app repositories: <https://github.com/gohanko/sidewayqr-api> and <https://github.com/gohanko/SidewayQR>.

Certificates

- 2023 **AWS Academy Graduate - AWS Academy Cloud Foundations**, Amazon Web Services (AWS)
- 2020 **Mathematical Thinking in Computer Science**, UC San Diego
- 2020 **Ruby on Rails: An Introduction**, John Hopkins University
- 2019 **Front-End Web UI Frameworks and Tools: Bootstrap 4**, Hong Kong University of Science and Technology

Education

University Tunku Abdul Rahman

Kampar, Perak, Malaysia

BACHELOR OF INFORMATION SYSTEMS (HONOURS) INFORMATION SYSTEMS ENGINEERING

May. 2021 - Jan. 2025

- Achieved an A in "Data Structure and Algorithmic Problem Solving," a course focusing on data structures and algorithms.
- Developed an IoT Debugging Tool for research purposes, receiving an A grade for the project.