Yii **Kuo Chong**

SOFTWARE ENGINEER · TYPESCRIPT DEVELOPER

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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, Scrapy, 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, liasing 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.