

Yii Kuo Chong

SOFTWARE ENGINEER · TYPESCRIPT DEVELOPER

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Summary

I started my career in 2017 with freelancing; building landing pages, and backend APIs. Then in 2018, I got hired as a software developer at a options trading company called Deriv Services Sdn. Bhd. doing both frontend and backend work.

That is until 2021, where I decided to enroll in university, and started freelancing again while managing my responsibilities as a full time student. Graduated in 2025 with a Bachelor of Information Systems (Honours) Information Systems Engineering from University Tunku Abdul Rahman.

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

Freelance

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.
- Site at: <https://app.deriv.com/dtrader>

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>

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.