

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. I 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, Scrappy, Express.js, Hapi.dev, PostgreSQL
Foundational Knowledge	REST API Design, Basic CI/CD, Data Structures & Algorithms, MIPS ISA

Work Experience

Freelance (Part-Time)

Remote

SOFTWARE ENGINEER

Jun. 2024 - Dec. 2024

- Developed reusable UI component libraries and implemented pages for a domain registrar application and cashback reward frontend based on Figma designs.

555 Comic

Tokyo, Japan (Remote)

SOFTWARE ENGINEER

Oct. 2022 - Dec. 2022

- Converted a hybrid codebase with React, and non-React code into a full React application to remove incompatibility issues.
- Implemented new features using React and Kalidokit for body part tracking, enabling users to pose and generate character images.
- Technologies: TypeScript, JavaScript, React, Kalidokit (for motion tracking).

Vox Asia Sdn. Bhd.

Kuala Lumpur, Malaysia (Remote)

CONTRACT SOFTWARE ENGINEER

May. 2022 - Jun. 2022

- Developed a Python library for social media text formatting, enabling cross-platform compatibility and reducing formatting time.
- Technologies: Python, Markdown

Vox Asia Sdn. Bhd.

Kuala Lumpur, Malaysia (Remote)

SOFTWARE ENGINEER

Feb. 2021 - Mar. 2021

- Developed a Django-based REST API for an AI-powered F&B chatbot.
- Led deployment using Docker and Kubernetes on AWS under tight deadlines.
- Provided mentorship to junior developers on technical challenges.
- Technologies: Python, Django, Docker, Kubernetes, PostgreSQL

Deriv Services Sdn. Bhd.

Cyberjaya, Selangor, Malaysia

SOFTWARE DEVELOPER, BACKEND DEPARTMENT

Jun. 2020 - Dec. 2020

- Built an automated payment processing service to streamline financial operations, reducing manual workload by automating payments based on predefined rules.
- Gained proficiency in Perl5 and contributed to a complex microservices architecture with minimal documentation.
- Technologies: Perl5, Node.js, Hapi.dev, PostgreSQL, Docker, CI/CD (Travis).

Deriv Services Sdn. Bhd.

Cyberjaya, Selangor, Malaysia

SOFTWARE DEVELOPER, FRONTEND DEPARTMENT

Dec. 2018 - May. 2020

- Contributed to the development of Deriv Trader, a real-time options trading application, by building core UI components (e.g., buttons, drop-downs, modals, tooltips) using React and TypeScript.
- Implemented a Canvas Draw Queue Manager to manage layering and rendering of chart components, ensuring proper marker placement and event handling.
- Integrated SendBird API for a P2P chat feature, overcoming challenges with React and non-React JS compatibility using iFrames and PostMessage.
- Collaborated with UI/UX and compliance teams to ensure regulatory adherence and seamless user experiences.
- Technologies: TypeScript, JavaScript, React, RxJS, WebSockets, LESS/SASS/BEM, Docker, CI/CD.

Freelance

Malaysia

SOFTWARE ENGINEER, PROJECT BASED

Jul. 2017 - Jun. 2018

- Built a REST API for an “Over-The-Counter Payment Tracker” using Django REST Framework, collaborating with an in-house front-end developer.
- Developed landing pages for local businesses and customized Shopify templates, 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

Jun. 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.