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

Work Experience

Freelance (Part-Time)   *Remote (Japan, Australia, Malaysia)*

SOFTWARE ENGINEER   *Feb. 2021 - Dec. 2024*

- Built UI component libraries for two frontend projects based on Figma designs for an Australian startup.
- Converted a hybrid codebase into a full React application to improve developer experience for a Japanese comic company.
- Developed a Django REST API gateway for an AI-powered F&B chatbot, deployed using Docker & Kubernetes on AWS under tight deadlines.
- Created a Python library for social media text formatting, enabling cross-platform compatibility and reducing formatting time.
- Guided junior developers through technical problems.
- Technologies: Python, Django, Docker, Kubernetes, PostgreSQL, Markdown, TypeScript/JavaScript, React, Kalidokit (for motion tracking).

Deriv Services Sdn. Bhd.   *Cyberjaya, Selangor, Malaysia*

SOFTWARE DEVELOPER, FRONTEND AND BACKEND DEPARTMENT   *Dec. 2018 - Dec. 2020*

- Built core UI/React components for a real-time options trading application based on Figma/Zeplin designs.
- Designed a HTML canvas draw manager to manage rendering of chart markers, enabling seamless integration of React events with HTML canvas.
- Integrated SendBird Chat SDK which does not support React by solving compatibility issues using iframes and postMessage browser APIs.
- Collaborated with UI/UX and compliance teams to ensure regulatory adherence and seamless user experiences.
- Built an automated payment processing service to reduce manual workload by automating payments based on predefined rules.
- Gained proficiency in Perl5 and contributed to a complex microservices architecture with minimal documentation.
- Technologies: TypeScript/JavaScript, React, RxJS, WebSockets, LESS/SASS/BEM, Docker, CI/CD (Travis), Perl5, Node.js, Hapi.dev, PostgreSQL.

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, including designing the database.
- Developed landing pages and customized Shopify templates for local businesses, e.g one for Smart Manufacturing Exhibition 2018.

Notable Projects

Deriv Trader   *Deriv Sdn. Bhd.*

COMMERCIAL PROJECT   *Dec. 2018 - May. 2020*

- A websocket, real-time React options trading application with a custom charting library. It's 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 to make sure components are drawn in proper order, and enable the canvas to respond to React events.
- Integrated SendBird Chat SDK to implement a P2P chat feature by solving compatibility issues of React and the SDK through creative use of iframes and postMessage.
- Application found @ 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 using predefined rules.
- Participated in the design of the API, and database as well as architecture decision on where to place the application among the almost a hundred other microservices.
- 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), Docker, and SQL (PostgreSQL).

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.