

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 (Japan, Australia, Malaysia)

SOFTWARE ENGINEER

Feb. 2021 - Dec. 2024

- Built UI component libraries, and built 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-based REST API gateway for an AI-powered F&B chatbot.
- Deployed a backend using Docker and 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 components (e.g., buttons, dropdowns, modals, tooltips) using React for a real-time options trading application.
- Designed a HTML canvas drawing queue manager to manage rendering of chart markers, and translate React events to 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 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: 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.

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.