Yii **Kuo Chong**

SOFTWARE ENGINEER · TYPESCRIPT DEVELOPER

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Summary

Full-stack developer with over 3+ years of experience building web applications using React (Typescript/Javascript), Python (Django/Flask) and Node.js (NextJS, Express.js). Proven track record of delivering high-quality software through agile methodologies, collaborating effectively with cross-functional teams to deliver features, and projects. Passionate about learning new technologies, and solving complex problems. Currently exploring agentic AI integration in web applications, and developer workflow to improve productivity.

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)*

FULL STACK ENGINEER, PROJECT BASED   *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.
- Implemented 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.