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
Front-End	React, Next.js, Zustand, WebSocket, SASS/LESS, Jetpack Compose
Back-End	Django, Flask, Scrapy, Express.js, Hapi.dev, PostgreSQL
Foundational Knowledge	REST API Design, Basic CI/CD, Data Structures & Algorithms, MIPS ISA

Work Experience

Convertium Pte. Ltd.   *Singapore, Singapore*

FRONTEND ENGINEER, MID-LEVEL   *Mar. 2025 - Present*

Achievements:

- Lead the frontend development of a marketing website with a few thousand pages of content over an 8 month period.
- Responsible for choosing the design methodology used, settling on Atomic design for its maintainability.

Responsibilities:

- Built a CSS/JS + React component library based on Figma designs which can be used with/without React.
- Designed and integrated RESTful APIs for dynamic content rendering.
- Implemented responsive web designs that work across different devices and browsers.
- Worked closely with project managers and back-end developers to iron out design issues, and integration with back-end applications.
- Technologies: TypeScript/JavaScript, React, RESTful APIs, SASS, Storybook.js

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

FULL STACK ENGINEER, PROJECT BASED   *Feb. 2021 - Dec. 2024*

Achievements:

- Improved frontend development efficiency by building UI component libraries for two projects using Figma designs for an Australian startup.
- Enhanced developer experience by converting a hybrid codebase into a full React application for a Japanese comic company.
- Delivered a scalable solution by developing a Django REST API gateway for an AI-powered F&B chatbot, deployed on Linux machines using Docker & Kubernetes on AWS under tight deadlines.
- Increased cross-platform compatibility and reduced formatting time by 5x by creating a Python library for social media text formatting.

Responsibilities:

- Manages end-to-end projects directly with clients based in Japan, Australia, and Malaysia.
- Understanding client requirements, and converting it into actionable steps.
- Preparing work breakdown sheets, and estimate cost/work needed using three-point estimation, and PERT.
- Translated Figma designs into pixel-perfect React applications built from scratch.
- Guided junior developers through technical problems.
- Collaborated with remote teams to deliver projects on time, and within budget.
- Technologies: Python, Django, Docker, Kubernetes, PostgreSQL, Markdown, TypeScript/JavaScript, React, Kalidokit (for motion tracking), Git (Version Control).

Deriv Services Sdn. Bhd. _Cyberjaya, Selangor, Malaysia_

Software Developer, Frontend and Backend Department _Dec. 2018 - Dec. 2020_

Achievements:

- Enabled seamless integration of React events with a charting library built on HTML Canvas, and solving overlapping markers problem by designing a canvas draw manager to manage rendering of chart markers.
- Implemented a P2P chat feature by integrating SendBird Chat SDK and solving React compatibility issues using iframes and postMessage browser APIs.
- Reduced manual workload by 33% by building an automatic payment processing service that automates the processing using predefined rules.

Responsibilities:

- Built core UI/React components for a real-time options trading application based on Figma/Zeplin designs.
- Collaborated with UI/UX and compliance teams to ensure regulatory adherence and seamless user experiences.
- Gained proficiency in Perl5 and contributed to a complex microservices architecture with minimal documentation.
- Help our recruitment team with proctoring new tech candidates in our hackathon.
- Participated in typical software development process (scrum) such as task creation, sprint meetings, and code reviews.
- Technologies: TypeScript/JavaScript, React, RxJS, WebSockets, LESS/SASS/BEM, Docker, CI/CD (Travis), Perl5, Node.js, Hapi.dev, PostgreSQL, Git (Version Control).

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 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 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

- 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.
- Secured 7th place out of 16 teams in the TopCoder competition organized by Thulija Technologies by collaborating with a team member to solve all 10 complex Python coding and algorithmic problems, demonstrating problem solving skills and ability to collaborate.