

# 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

<b>Languages</b>	Typescript/Javascript, Python, Kotlin, Perl5
<b>Frontend</b>	React, Next.js, Zustand, WebSocket, SASS/LESS, Jetpack Compose
<b>Backend</b>	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)*

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 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).

### 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.

### 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

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### 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

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- 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

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### 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.