

Jia Yi Ooi

Senior Full-Stack Engineer

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Full-stack engineer based in Penang. TypeScript and React on one side, Python (FastAPI) or Elixir on the other. Past roles cover business messaging SaaS, crypto trading tools, hotel booking, and logistics tracking.

EXPERIENCE

uchat

Nov 2024 – Apr 2026

Senior Software Engineer — Business (Official Account) unit

Remote (Singapore)

uchat Business (business.uchat.social) is the official-account side of uchat (uchat.social), a consumer messaging app in Thailand. Companies use it to hold B2C conversations with their customers and manage those relationships from one place.

- Built full-stack features across the React + TypeScript frontend (Vite, TanStack Router, Socket.IO) and the FastAPI backend running on Kubernetes.
- Shipped real-time messaging features for the business inbox and the conversation flows around it.
- Ran load tests on the chat service to measure concurrent-user capacity and find bottlenecks before traffic scaled.

Accomy

Feb 2024 – Oct 2024

Senior Software Engineer

Remote (Singapore)

- Led the frontend team to ship the MVP of a corporate hotel booking platform.
- Set up the Next.js + TypeScript codebase from scratch — file structure, component patterns, and team conventions — and drove architecture decisions with product and design through launch.

Coinalpha (Hummingbot)

Jun 2021 – Nov 2023

Software Engineer

Remote (US)

- Built and maintained the React frontend and FastAPI backend for the Hummingbot dMiner platform.
- Integrated Web3 wallets (MetaMask, Tezos) so users running market-making bots could sign on-chain transactions directly from the UI.
- Reworked the build pipeline to cut project build times and trim a growing dependency graph.
- Used Chrome DevTools memory profiling to find leaks in long-running pages and lower overall memory usage.

Areca System

Aug 2021 – May 2022

Contract Software Engineer (alongside Coinalpha role)

George Town, Penang

- Built a supermarket point-of-sale system from scratch, including the cashier UI and core transaction flows.
- Integrated an e-wallet payment gateway and an 8-bit LCD customer display.
- Designed an over-the-air update pipeline so in-store terminals could pull deployments remotely without on-site visits.

Aglive Pty Ltd

Nov 2017 – Jun 2019

Software Engineer

Remote (Australia)

- Built and maintained the dashboard for a livestock and freight tracking system.
- Led data deduplication on Austracker (truck tracking platform) to improve downstream report quality.

Side project — **elixir-opentui**: porting a TypeScript terminal UI library to Elixir. github.com/jyooi/elixir-opentui

SKILLS

Languages: TypeScript, Python, Elixir, SQL

Frontend: React, Next.js, Vite, TanStack Router, React Query, Socket.IO, Electron

Backend & Infra: FastAPI, Phoenix / LiveView, REST API design, Kubernetes, CI/CD

Other: Web3 wallets (MetaMask, Tezos), Chrome DevTools profiling, real-time systems

Education — **B.IT Communications & Networking (Hons)**, Universiti Tunku Abdul Rahman (UTAR) · May 2017