Yong Kin, Chong

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO   La Jolla, CA
Master of Computer Engineering   Expected Jun 2026

TSINGHUA UNIVERSITY   Beijing, China
Bachelor of Electrical Engineering   Sep 2017 - Jun 2021
Major in Electronic Information Science and Technology
2017 EE Award for Overall Performance; Outstanding Malaysian Scholarship; Tsinghua-Inditex Scholarship

WORK EXPERIENCE

LP-Research Inc.   Jul 2021 - Jul 2024
Software Engineer | C++, ZMQ, OpenXR, Rust
- Developed LPVR-AIR, a location-aware large-scale VR solution, and deployed it to overseas vehicle design centers.
- Significantly enhanced setup procedures by automation scripts and improving the UI, reducing manual setup by **50%**.
- Implemented robust debugging tools for data playback and monitoring, widely used across departments and by customers.
- Modularized the sensor fusion program and improved internal network communications, reducing redundant code by **40%.**

ACY Finance   Sep 2021 - Sep 2023
Lead Full-Stack Developer | Javascript, Solidity, WAGMI
- Supervised the development of a DeFi team, coordinating frontend, smart contract, and subgraph development.
- Implemented and launched a UI used by **20k+** users, featuring real-time data through WebSocket and the Graph protocol.
- Redesigned the liquidation rule of the perpetual future protocol in Solidity and wrote **30+** unit tests to safeguard funds.
- Created a compact yet scalable market maker framework, regulating cryptocurrency prices across **8 exchanges**.

CommerceHulk Pte. Ltd.   Sep 2021 - Dec 2022
Full-Stack Developer | NextJs, MongoDB, AWS Lambda, Stripe APIs
- Implemented **responsive design** for the SSR webpage of an e-commerce startup, enhancing mobile UX for **5+** roadshows.
- Streamlined the payment experience by integrating **Stripe APIs** with **AWS Lambda**, reducing server load by **30%**.
- Designed schema for inventory and user data, and authored **50+** unit tests and **15+** integration tests.

OPEN-SOURCE PROJECTS

ListenBrainz - Collect and Share Users' Listening History | Python, ReactJs   Mar 2024
- Proposed a detailed cron service design to import users' listening histories, aimed at reducing client-side workload.
- Enhanced installation documentation for Windows developers and optimized test script for targeted testing.
- Improved user experience by refining autoplay logic in the in-browser player.

OpenZen - LP Research Sensor Library | C++, Python, Shell   Mar 2023 - Present
- Supported integration of new sensors in the streaming protocol and command parser while ensuring backward compatibility.
- Updated and fixed examples across multiple languages and platforms including Python, C++, C#, ROS, Unity, and WPF.
- Implemented an end-to-end automatic release pipeline, **saving** release time by **10+ minutes** per release.

GROUP AND PERSONAL PROJECTS

HIPPOCRATIC ISLAND - TAIKO BEST APP (ETHTOKYO 2023)   Apr 2023
Lead Developer (4-member team)
- Developed a Lens protocol-based gated discussion platform for individuals managing sensitive health conditions.
- Orchestrated architecture, implemented UI, and protocol interaction, prioritizing privacy in a supportive environment.

DE-CHAT - 1ST PLACE FOR XMTP PRIZE (ETHONLINE 2022)   Sep 2022
Lead Developer (5-member team)
- Created an XMTP-based web3 chat app, integrating in-chat token sending, mobile notifications, and video calling.
- Implemented the UI, extended protocol for image transfer, and interfaced smart contract functions.