

# Yong Kin, Chong

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, SAN DIEGO

Master of Electrical and Computer Engineering

La Jolla, CA

Sep 2024 - Expected Jun 2026

### TSINGHUA UNIVERSITY

Bachelor of Electrical Engineering

Beijing

Sep 2017 - Jun 2021

2017 EE Award for Overall Performance; Outstanding Malaysian Scholarship; Tsinghua-Inditex Scholarship

## WORK EXPERIENCE

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### 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

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### 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

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### HIPPOCRATIC ISLAND - TAIKO BEST APP (ETH TOKYO 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 (ETH ONLINE 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.