Chong, Yong Kin

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Education

Tsinghua University	August 2017 – June 2021
Bachelor of Electrical Engineering @ 3.41 / 4.00	
The Chinese University Hong Kong (Exchange)	January 2020 – May 2020
Faculty of Engineering @ 3.8 / 4.0	

Professional Experience

Software Engineer — July 2021 – Present — *Tokyo*

LP-Research Inc.
- Contributed to the ongoing improvement of OpenZen, a C++ based sensor library.
- Designed and implemented a reliable sensor data logging system featuring a user-friendly web interface.
- Participated in the development of LPVR-AIR, a large-scale wireless VR solution.

Team Lead & Full-Stack Developer — September 2021 – September 2023 — *Singapore (remote)*

ACY Finance
- Supervised the development of a DeFi project, coordinating frontend, smart contract, and subgraph development.
- Enhanced the dApp UI and Express.js backend while conducting contract testing.

Full-Stack Developer — September 2021 – December 2022 — *Singapore (remote)*

CommerceHulk Pte. Ltd.
- Created a server-side rendered responsive website for an e-commerce startup, employing Mongo DB for data storage.
- Collaborated with Shopee and Stripe APIs, managing requests through AWS Lambda Functions.

Advanced Analytics Intern — June 2020 – September 2020 — *Kuala Lumpur*

Roche Services & Solutions APAC Sdn. Bhd.
- Supported the team in a timeseries forecasting project, and conducted a technical sharing session for internal stakeholders.

Open-source Projects

OpenZen Library — April 2023

Core maintainer of the sensor library, supporting new sensors and APIs, with multi-language bindings (Python, C, C#) and platform support (Unity, ROS, WPF).

Personal Projects

Hippocratic Island - Taiko Best App (ETHTokyo 2023) — April 2023

Contributed significantly to a discussion platform for patients secured by zero-knowledge proof, serving as the primary UI contributor and contract integrator.

De-Chat - 1st Place for XMTP Prize (ETHOnline 2022) — September 2022

Created a chat service enabling users to send tokens, stream funds, and receive notifications. Facilitated web3 token transfer between friends.

Capital-Efficient Lending Protocol (ETHNYC 2022) — June 2022

Implemented an innovative solution to increase lending pool utilization by allowing in-platform leverage trading.

Household Electricity Load Forecasting   December 2021

Employed clustering and forecasting techniques to optimize photovoltaic scheduling system. Incorporated deep learning with DTW features, leading to higher accuracy.

TDoA-Based Dual Microphones Source Localization   November 2019

Implemented a spectral subtraction algorithm, reducing noise interference in audio recordings. Utilized GCC-PHAT algorithm for precise sound source localization.

Single View Height Estimation   October 2019

Developed a method for estimating object height in still images by extracting vanishing points, enabling accurate measurements.

Awards & Honors

2017 EE Award for Overall Performances
Tsinghua University   *2017*

Outstanding Malaysian Scholarship
Tsinghua University   *2017-2021*

Tsinghua-Inditex Scholarship
Tsinghua University   *2019*

Related Courses

Advanced MATLAB Programming and Its Application	3.6
Big Data and Machine Intelligence	4.0
Calculus A (1), (2)	4.0, 4.0
Computer Network Management	3.6
Computer Program Design (1), (2)	3.6, 4.0
Data and Algorithm	3.0
Linear Algebra (1), (2)	4.0, 4.0
Media Programming	3.6
Principle and Application of Database	4.0
Python Programming: Experiment Implementation for Social Scientists, Big Data and Social Networks	4.0

Skills

Languages & Frameworks	Intermediate	**(C++)** ZeroMQ, protobuf, asio, boost, STL
		(Python) numpy, pandas, matplotlib, scikit-learn
		(JavaScript) ReactJs, axios, ExpressJs, ethersJs
	Beginner	**(Solidity)** OpenZeppelin, hardhat
		(Rust) Tokio, OpenXR
		(MATLAB) Signal Processing
Tools	Intermediate	Visual Studio, CMake, Git, Docker, Jira
	Beginner	Conan, Shell, Conda, SSH
Methods	Intermediate	OOP, TDD, CI/CD, Scrum

Others

Spoken Languages: Mandarin (Native), English (Business level), Japanese (N3)

Athletics: School International Martial Arts Team (team captain)

Organizations: Association of Student International Communication, THU Future Lab