

# Songyue Wang (Aaron)

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## Education

### The University of Hong Kong

Bachelor of Arts and Sciences (Financial Technology and Computer Science)

Hong Kong SAR

Expected graduation: Jul. 2025

CGPA: 3.70/4.3 (First Class Honours range) Major CGPA: 3.76/4.3

Honours: HKU Foundation Scholarship (full tuition waived), HKSAR Government Scholarship 2023-24, Dean's Honours List 2021-23

Courses: Data Structure & Algorithm, Cryptography, Database Systems, Cybersecurity, Derivatives, Corporate Finance, Market Regulations, etc.

### National University of Singapore

Exchange Research Student at School of Computing, Ripple Fintech Lab

Singapore

Jan. 2024 – May. 2024

Project: Privacy-preserving eKYC solution based on Merkle Tree (presented on UBRI Connect, Zurich, Sep. 2024)

## Technical Skills

General-Purpose Programming Languages: Python, Java, C++, JavaScript

Database Systems: MySQL, MongoDB

Backend Development: Node.js, Django

Frontend Development: HTML/CSS/JavaScript, React

Others: Solidity, PowerBI, PBI Embedded Analytics, Linux Bash

## Professional Certifications

Certified Information System Security Professional (CISSP), Associate

ISC2, Jun. 2024

Certified Cloud Security Professional (CCSP), Associate

ISC2, Oct. 2024

## Work Experience

### Hong Kong Exchanges and Clearing Limited (HKEX), Information Technology

Hong Kong SAR

Information Security Governance Intern

Jun. 2024 – Aug. 2024

- Performed data reconciliation on Privileged Account Management (PIM) database and Production Account Inventory with PowerQuery, patched 10K+ inconsistent records to ensure privileged identities in IT environment are accurately registered.
- Assisted the Security Governance Team with the initial implementation of PIM exception management. Designed an interactive PIM exception form, performed record validation on 50K+ PIM entries with VBA, and hosted a briefing session with all application teams to introduce this new standard requirement.
- Produced a catalogue that maps 90+ existing IT policies, standards, and guidelines to 700+ Secure Control Framework items with high criticality, to document the coverage of HKEX security and privacy program.

### The University of British Columbia, Department of Civil Engineering

Kelowna, BC, Canada

Research Intern

May. 2023 – May. 2024

- Supervised by [Dr. Q. Chen](#) and funded by Mitacs (a research grant agency of Government of Canada), developed a methodological framework and application prototype of a knowledge-based recommender system for e-procurement of prefabricated kit-of-parts.
- Published this research work as a journal article on [Buildings](#) (JCR Q2, Impact Factor 3.2) as the first author, and as a conference paper on [TCOT2024](#) (New Brunswick, Canada, Aug. 2024) as the third author.

### The University of Hong Kong, Business School

Hong Kong SAR

Research Assistant

Mar. 2023 – Aug. 2023

- Supervised by [Dr. Y. You](#), developed smart contracts and REST APIs for a decentralized contract of difference (CFD) trading platform with Solidity.
- Produced consultation reports & expert's statements for Hong Kong Department of Justice, regarding technical issues in determining evidence admissibility and enforcing asset recovery for proceedings involving digital asset activities.

### The University of Hong Kong, Department of Computer Science

Hong Kong SAR

Teaching Assistant

Sep. 2022 – Dec. 2022

- Delivered weekly tutorials for [Dr. D. Schnieders](#) and [Dr. C.K. Chui](#)'s Computer Programming I course (ENGG1330, HKU 22 fall), covering topics including basic syntax, algorithm design, and software development lifecycle.

### OneDegree Hong Kong Limited, Cybersecurity Insurance Division

Hong Kong SAR

Digital Asset Insurance Intern

Jul. 2022 – Sep. 2022

- Audited smart contract codes of various DeFi/NFT/GameFi projects and produced 20+ technical memos to assist the underwriting team in understanding technical risks arising from the codebases.
- Developed a separate website for cybersecurity coverage products, established a pre-underwriting questionnaire system with MySQL and PHP, and implemented a Search Engine Optimization (SEO) plan with the marketing team.
- Designed brochure wordings for various digital asset coverage products and assisted the partnership manager in KYC procedures.

### UniAsset Limited

Hong Kong SAR

Full Stack Developer

Mar. 2022 – Jun. 2022

- Independently implemented an authentication framework to reduce blockchain transaction fees for decentralized application (DApp) users using the idea of "Sign Off-Chain & Verify On-Chain" with Solidity and Node.js.
- Assisted the CTO to draft functional requirements for a web platform to initiate, approve, and execute digital signature requests with company-owned cryptographic keys, to establish consolidated audit trails for key usages and streamline the approval workflow.