

CHAN Ching, Crystal

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EDUCATION

Hong Kong University of Science and Technology (Class of 2025)

Sep 2021 – Present

Bachelor's Degree of Engineering, Major in Computer Engineering, Minor in Humanities

- Awarded Professor Edmond Ko Scholarship for Student Mentoring Scholarship
- Exchange Program to University of Sussex Informatics Department in 2023-2024 Spring term
- Complete with Final Year Project on the topic of Music with Generative AI to develop a transformer-based AI system

INDUSTRY EXPERIENCE

Cyber Security, Technology Risk Consultant Intern

Jan 2025 – Present

KPMG International Limited

- Assist in a project focused on security data analysis by identifying and resolving errors in the bank server database.
- Engage in practical labs to simulate real-world scenarios including fishing, web injection, Linux usage, and more.

Technical Pre-Sales Intern

Jun 2024 – Aug 2024

IBM China/ Hong Kong Limited

- Assisted in the deployment project of the APM monitoring tool Instana with Opentelemetry data collection method.
- Participated in customer meetings related to the deployment, focusing on mainframe modernization with AI code assistant for COBOL to Java conversion.
- Engaged in conducting market research to identify the primary client target for IBM Hong Kong in 2025.

Software Engineer Intern

Jun 2023 – Aug 2023

Robocore Technology Limited

- Built a web application for remote controlling robots, which includes creating command schedules, uploading files to robots' servers, and other functions.
- Designed the GUI and UX of the application and created binding with back-end by MVVM architectural pattern.

Software Developer Intern

Dec 2022 – Jan 2023

Zunosaki Limited, HandyRehab

- Updated software development kit of robots to develop more functions and commands.
- Created a React Native application to network robots to computer servers using IoT methods such as WebSocket, MQTT, and AMQP by connecting the RabbitMQ message broker.

SCHOOL ACTIVITIES AND PROJECT EXPERIENCE

Student Research Assistant

Sep 2024 – Present

HKUST Digital Humanities Initiative Project

- Conduct research on historical Taiwanese diaries during Japanese Resistance War with data extraction and analysis.
- Develop a JavaScript-based website featuring GIS mapping, price indices, and heatmaps to visualize analyzed data, utilizing MongoDB as the database management system.

Senior Peer Mentor

May 2022 – Present

HKUST School of Engineering Peer Mentor Program

- Advise on major selection, course registration, and future pathway for 100+ engineering school freshmen.
- Organize 5+ team-building events to bond the community of engineering students.

Mobile Developer

Sep 2023 – Jun 2024

HKUST Path Advisor Team

- Enhanced an existing Mobile App with adding new functions including bookmarks and debug the old function pages.
- Updated the database of the university campus map.

Core Team Member

Nov 2021 – Aug 2024

HKUST Wu Zhi Qiao (Bridge to China) Team

- Cooperated with 5+ organizations on Hong Kong and Mainland construction projects, including scheming building design, drafting Technical Report, and village infrastructure renovation.
- Prepared and designed products for promotion and marketing with Adobe Illustrator and Onshape.

SKILLS AND LANGUAGES

Programming Languages

Technical Tools & Frameworks

3D Modeling and Design

Languages

JavaScript, TypeScript, C++, Python, HTML5, CSS, SQL, C, Verilog

Git, Android Studio, Docker, React Native, React.js, MongoDB,

MATLAB, Node.js, STM32, FPGA, Arduino, Linux, MySQL

Blender, Onshape, Figma, Canva, Photoshop, Premiere Pro, Illustrator

Cantonese (Native), Mandarin (Native), English (Fluent)
