

Wong Ka Hing

Software Developer | Full-Stack | Cloud & DevOps

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Professional Summary

Full-stack engineer with 4+ years' experience delivering enterprise-grade web & mobile solutions across APAC and EMEA. 2022 WorldSkills Web Technology Champion with a proven record of thriving in remote, cross-cultural teams. Expert in TypeScript/JavaScript, .NET, Angular, React, AWS, Docker, and Kubernetes; strong in RESTful API & relational-database design, CI/CD, and event-scale systems. Eager to help WorldSkills International run flawless global competitions.

Core Technical Skills

Languages: TypeScript, JavaScript, C#, Golang, SQL, Swift

Frameworks: .NET Framework, Angular 17, React, React Native, Node.js/Express

DevOps: AWS (EC2, RDS, S3, Lambda, CloudWatch), Docker, Kubernetes, Pulumi, GitHub Actions

Data & Integration: MySQL, PostgreSQL, MongoDB, RESTful API design & consumption, Mapbox, WebSockets

CMS & PHP: WordPress plugin/theme development

Tools: Git, Jira, Figma, Puppeteer, Unity, BIM, Web3.js

Professional Experience

Gammon Construction Limited

Analyst Programmer

11/2024 - Present

Hong Kong

- Architected GPS tracking platform (Angular + Mapbox + BIM) handling maximum 10k+ daily events; reduced API latency 40%
- Refactored Digital Works Supervision System to a modular .NET Framework REST API layer, improving release velocity 30%
- Built cross-platform supervisor app with React Native, achieving 95% code reuse

One2 Cloud Limited

Senior Software Engineer

01/2023 - 11/2024

Hong Kong

- Designed & deployed Web3 credit-card wallet on AWS (Step Functions, API Gateway, Lambda, RDS) processing >US\$1M/month
- Integrated Sumsup eKYC, cutting user verification time from 24h to 15min
- Authored Pulumi + Docker micro-framework, reducing green-field API setup time 70%
- Developed automation solution using Puppeteer to bypass CAPTCHA in Alibaba Cloud, enabling automatic sub-account creation and ECS instance provisioning
- Enhanced React application with optimized animations and performance improvements for international team collaboration

Freelance

Full-Stack Developer

2024 - 2025

Remote

- Delivered appointment & back-office suite for Chinese medicine clinics (Node.js/Express, React, PostgreSQL)
- Implemented live schedule board via WebSocket (<200ms sync across 8 terminals)
- Built drag-and-drop interface using React DnD allowing staff to reschedule appointments with duration resizing
- Established CI/CD pipeline for automated deployment, ensuring smooth release process for international clients

Sik Sik Yuen

Student Programmer

07/2021 - 04/2022

Hong Kong

- Containerised legacy services with Docker & Kubernetes, cutting infra cost 25%
- Built Golang API gateway with RBAC and integrated MPGS 3-DS payments for kiosk POS
- Revamped kiosk system with sticker printing capabilities and secure transaction processing

Selected Projects & Achievements

WorldSkills Competition 2022 – Web Technology Champion

Oct 2022

- International competition demonstrating excellence in full-stack web development
- Competed against global participants showcasing advanced technical skills

Cathay Hackathon 2022 – Champion

Nov 2022

- Built Swift/AWS carbon-footprint app with gamified reward system
- Engineered iOS native app with modular API architecture for sustainable travel tracking

- Developed DAO-backed bookstore utilizing Web3 technologies: Soulbound tokens, DAO, and NFT
- Created censorship-resistant platform ensuring content permanence and author rights protection

The Link – Atos IT Challenge

Jan 2021 - Apr 2021

- Built AI-powered ESG solution in hybrid React Native architecture for cross-platform compatibility
- Implemented intelligent algorithms for tracking and reducing carbon emissions

Auto Chess – IVE GSD Final Year Project

Jun 2019 - Jun 2022

- Developed mobile auto-chess game with Unity, featuring optimized rendering for mobile devices
- Architected multiplayer system with spectator mode and AI-driven chess movement mechanics

Education

City University of Hong Kong

B.Sc. (Hons) Computer Science

2020 – 2023

Hong Kong

Hong Kong Institute of Vocational Education (IVE, TY)

Higher Diploma, Game Software Development (Distinction)

2018 – 2020

Hong Kong

Certifications

AWS Certified Solutions Architect – Associate

2024

AWS Certified Developer – Associate

2024

Huawei HCCDA Tech Essentials

2024

AWS Certified Cloud Practitioner

2023

Apple Certified Swift Developer

2022

Languages

English – Fluent | Cantonese – Native | Mandarin – Professional

Availability

Remote (UTC+8) with flexible overlap for Europe & Americas

Willing to travel internationally for competition periods

Awards & Achievements

Hong Kong Cyber Security New Generation CTF

- 2023 Open Category | **Certificate of Merit** Nov 2023
- 2022 Tertiary Institution Category | **Certificate of Merit** Nov 2022
- 2021 Tertiary Institution Category | **Certificate of Merit** Nov 2021
- 2020 Tertiary Institution Category | **Appreciation of Tertiary** Nov 2020

City University of Hong Kong - CityHack 2023

Feb 2023

First Runner-Up

Cathay Pacific – Cathay Hackathon 2023

Nov 2022

Champion & Most Popular Solution

WorldSkills Competition 2022 Special Edition

- WorldSkills International – Web Technology | **Champion** Oct 2022
- WorldSkills Hong Kong – Web Technology | **Champion** Jun 2020

Apple Inc. – Mobile Application Innovation Contest

Sep 2022

Second Runner-up

IEEE – IEEE Blockchain Hackathon 2022 Web3 Dev

Aug 2022

Third Place

Atos – Atos IT Challenge 2020

Dec 2020

Shortlisted & Represent HKSAR