

WONG, Hon Yin Henry (Software Developer)

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WORKING & PROFESSIONAL EXPERIENCE

July 2025 - Present	IBM STEM Summer Internship <ul style="list-style-type: none">Implemented a RAG Chatbot webapp using Langchain, FastAPI, Prostage SQL, ChromaDB, llama.cpp, Openshift. Deployed On IBM Power 10 servers with RHEL.Project sizing for clients for IBM Power.
Jun 2025	TRM (HK) Limited AI Developer <ul style="list-style-type: none">Implemented a AI workflow and API to generate CM statements from an audio transcript using Diffy (AI workflow), XML tags prompt engineering, C# .NET (API development)
Dec 2024 – Jan 2025	iGears Technology App Developer Winter Intern <ul style="list-style-type: none">Implemented and designed a Multi-platform NFC Event Application<ul style="list-style-type: none">Frontend: React Native (iOS & Android), Electron (Windows)Backend: Flask RESTful APIDatabase: MongoDBImplemented a Multi-platform Flutter Clipboard App<ul style="list-style-type: none">Frameworks: FlutterBackend: node.js WebSocket server
May 2024 – July 2024	Passed HKSTP ideation in INNOX Entrepreneurship Summer Camp <ul style="list-style-type: none">Designed a productDeveloped business modelImplemented a prototype (hardware, motion capture, image processing using mediapipe, OpenCV and more)Developed an Application using Flutter

EDUCATIONAL BACKGROUND

2023 - Present	The Hong Kong University of Science and Technology (HKUST) Bachelor's Degree in Engineering, major Computer Science (CGA: 3.1/4.3)
2021 - 2023	The Hong Kong Polytechnic University Hong Kong Community College Associate in Statistics and Data Science with Distinction (CGA: 3.92/4.3)

PERSONAL PROJECTS

Crowdfunding Dapp - Defunds

- A fully decentralized Crowdfunding Dapp with voting mechanism and refund features on ETH using **solidity** (smart contract) and **React** (UI)
- <https://hyhen115.github.io/DeFunds>

Motion Capture Robot Arm

- Build a **AI model** and implement a motion capture program using **OpenCV**, **mediapipe**, **TensorFlow** for controlling a robot arm using motion capture

Distributed ML Pipeline

- A Distributed ML Pipeline using **spark** on **AWS EMR** and **S3**, with an interactive web UI for user to drag dataset in and automatically train AI models for them
- https://github.com/Hyhen115/ml_pipeline

Streamlined Linux Shell Queues and Memory

- A simplified Linux Shell, Multi-level Feedback Queue and Memory Management in Linux OS Using **C**
- <https://github.com/Hyhen115/Streamlined-Linux-Shell-Queues-and-Memory>

Personal Portfolio Website

- Build and design a Personal Website using **React**, **Vite**, **Tailwind CSS**
- <https://hyhen115.github.io/personal-website/>

Exam System

- An Exam System for student, teachers and admin. Using **Java**, **Angular**, and Unit tested with **Junit** and **Mockito**
- <https://github.com/Hyhen115/Exam-system>

Weather App

- Build a weather app using **Flutter** and **Openweather API**

Supermarket Database

- design a **relationship diagram**
- implement the Supermarket Database with **SQL** using Microsoft Access

Animal Adoption Centre System

- Build an animal adoption system using **C++**, mainly using **BST** and **Linked list**

Chess Game

- Build a chess game using **C++**, mainly practicing **OOP** and **templates**

LANGUAGES AND TOOLS

- Fluent English, Chinese (Putonghua and Cantonese)
- C, C++, C# .NET 8, Java, Python, JavaScript, Solidity
- React, React Native, Flutter, HTML/CSS, Tailwind CSS
- SQLite, MongoDB, PostgreSQL
- AWS (EC2, EMR, S3, Lambda), Docker, Podman, Git, Postman, Junit, Mockito