

Wu Ricardo K (Software/ Developer)

Hong Kong

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Summary

I am an ambitious Bachelor's student at **the Chinese University of Hong Kong**, majoring in **Financial Technology** with a **minor in Statistics**. My strong enthusiasm for Data Mining is evidenced by over a year of internship experience. Having acquired knowledge through college courses, bootcamps, and internships, I feel comfortable with **programming** and **data modeling**. As I will graduate in the upcoming December, I am eager to explore opportunities in **Software Development**, **Machine Learning**, and **Web Development**, where I can further refine my skills while contributing to the success of my future employer.

Education

The Chinese University of Hong Kong

Sha Tin, Hong Kong

Bachelor of Engineering in Financial Technology (Minor: Statistics)

Sept 2018 - Dec 2023

- **Courses:** Statistics, Data Mining, Database Python, System Simulation, Statistical Learning, Cyber Security, Financial Modelling, Internet Finance, Machine Learning, Deep Learning, Strategic Thinking, Recommender System, Multivariate Statistics
- **Projects:**
 - 3rd in FTEC4003 (**Data Mining for Fintech**) group project competition (1-person group)
 - A practical Statistics paper on **Time Series Forecasting** using **deep learning** and **machine learning** for carbon credits in Latex will be posted on the HKSS bulletin in April 2024
 - [Deep learning for computer vision: Artist identification from artwork](#)

Work Experience

Apple

Causeway Bay, H.K

Sales Analyst Intern

Sep 2023 - Dec 2023

- **Analyzed Apple retail sales data which has over 1.8M data entries with complex seasonality** from a carrier perspective using **descriptive statistics** and **interactive plots by Plotly**. Prepared and delivered detailed presentations to provide insights for **business strategy planning**
- Utilized **web scraping techniques** to gather potentially related external factors online for **multivariate time series data analysis** after conducting **correlation analysis** to enhance forecasting performance.
- Collaborated with another data analyst to implement **statistical and machine learning models** on raw data using Python i.e. **Time Series Transformer, Autoformer, Prophet** with **auto hyper-parameter searching tool Optuna** and **communicated with Taiwan team** to explore opportunities. Smooth forecasts for different granularity were given with an average lower than 100 RMSE and 0.5 MAPE.

EventBinder

Lai Chi Kok, K.L

Full Stack Developer Summer Intern

July 2023 - Sep 2023

- Collaborated with teammates to complete a **full-stack RESTful API project** about **robot** for The University of Hong Kong using **NestJs** and **Typescript**
- Completed the **backend** part and helped **design the schema** as well as the **DTO**, used **parallel web scraping** to scrape data from shopping malls
- Visualized the backend control logic using **Drawio** and wrote **Swagger** API documentation

FCC analytics

Kwai Fong, N.T

Machine Learning Engineer Summer Intern

June 2023 - July 2023

- Conducted Research on **NLP tasks** and **LLM models** to understand **Modern transformer models** and **data pipeline** from **Tensorflow** and **HuggingFace**
- Explored opportunities of using **Langchain** in Fintech industry, especially in **anti-money laundering process**

Apple

Causeway Bay, H.K

Data Analyst Intern

Sept 2022 - June 2023

- Analyzed financial reports and extracted financial metrics to evaluate business partners' financial situation and operational performance. Compared the findings with records from Apple's retail database by creating visualization projects on Tableau
- Practiced web scraping techniques using APIs, Python, and other crawlers to monitor the popularity of the iPhone for Life program and measure the effectiveness of Public Relations department advertisements
- Acted as a mystery shopper to assess business partners' performance in promoting Apple's products, such as Apple Watch Ultra and iPhone 14 series, within the iPhone for Life program launched in mid-late 2022
- Assisted the manager in data collection and organization to create a report and statistical video clip showcasing a 10-year overview of Apple's retail business

Technical Projects/ Specializations

Xccelerate

Causeway Bay

Front-end Developer Trainee

Oct 2023 - Jan 2024

1. Canvas Project using FabricJS
 - Led the **vanilla JavaScript** project with **HTML** and **CSS** to create user-friendly interactive Canvas web application
 - Used **ExpressJs** as backend with **express-session** and **JWT** to add **authentication** and **verification**, which connects to **self-hosting MongoDB** as a user data source for **syncing with local storage**, **Swagger Autogen** is used for generating RESTful API documentation from codes.
2. Capstone Project Teammate Introduction
 - Led the **vanilla JavaScript** project with **HTML** and **CSS** to create user-friendly interactive Canvas web application
 - Used **ExpressJs** as backend with **express-session** and **JWT** to add **authentication** and **verification**, which connects to **self-hosting MongoDB** as a user data source for **syncing with local storage**

3. [Some Small Projects](#)

Xccelerate

Causeway Bay

Data Science and Machine Learning trainee

Sept 2022 - April 2023

CUHK

Sha Tin

Student

Dec 2023 - Now

1. **Statistical Time Series Analysis**
2. **Deep Learning** of **multiclass(8) classification** of artwork from selected dataset
3. **Final Year Project:** Opinion Dynamics in Social Media Using Web Scrapped Data from Social Media Platform

[More in LinkedIn](#)

Skills

Programming R (ggplot2, tidyverse), SQL

Feature engineering, EDA

Data mining Classifiers and Clustering models

Association analysis, Anomaly detection, Ensembling models, Dimensionality Reduction, Recommender system

Miscellaneous Tableau, Microsoft Office, GitHub, **LLM Prompt Engineering**

Languages

English Fluent

Cantonese Native

Mandarin Native