Wan Chung Hang, Louis

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Profile

Professional statistics and finance graduate with wide ranging experience of statistical analysis, machine learning techniques and software engineering. Seeking to combine academic works and experience in a challenging role.

Work Experience

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| 2020 MAR – NOW | Consultant  **GreySpark Partners – Hong Kong**  Project 1: SFC – DS-OL data analystics platform  SFC have regular inspections of active securities brokers. This data analytics project tries to identify irregular transactions with higher performance. The platform can check any activity violating regulation or code of conduct with aid of rules set and machine learning algoithms.  Project 2: CEBI – Bloomberg to Calypso data-uploader  This Spring app help our client manage the trade from Bloomberg TOMS. With our business logic, trade record with be processed and uploaded to Calypso by using Java APIs.  Project 3: HaiTong – Front Arena deployment and python programming  We provide supporting service to deploy Front Arena, a trade management software. Python packages will be used for different financial calculation and reporting. |
| 2017 NOV– 2020 MAR | Junior Trader & Programmer  **Run Hua Investments Group Company Limited**  Project 1: Build trading software with various APIs  This project aims to build a python-based trading software for hedge fund. It consists of data feeder (Reuter eikon), broker (Interactive brokers) and the core business logic. Using the APIs from Reuters and IB, the software will handle the daily trading plan generate a set of complicated orders.  BAU:   1. Develop new trading strategy and financial market research 2. Trade order management and risk control 3. Daily reporting and portfolio summary |
| 2015 JUN – 2017 NOV | Engineer, Data Analytics (Promoted from Project Intern  on 2016 JUN)  **Hong Kong Applied Science and Technology Research Institute (ASTRI)**  Project 1: Jewelry products recommendations and market research  The client is top-tier jewelry company. Our project aims to build a recommender system, various of statistical models for demand predictions and pricing strategies.  Project 2: Algorithm trading and financial modelling  This project aims to build portfolio and trading strategies with HSI, NASDAQ and Dow Jones constituents. We are not only make use of portfolio theory with different risk measure and optimization algorithm. New machine learning-based method also used for generating trading signal. |

Education and Qualification

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| 2020 | DeepLearning.AI TensorFlow Developer  **DeepLearning.AI via Coursera**  This specialization consist of four course about deep learning model teachnique like image processing, natural language processing and time series data modeling.  **https://coursera.org/share/2a9ab4000e9d33be422d450a786066b4** |
| 2017 – 2019 | Machine Learning Engineer Nanodegree  **Udacity**  Learn to apply predictive models to massive data set in different fields like finance, economics or robotics  Capstone project: **https://github.com/chwanlouis/udacity\_capstone\_project\_sunlife**  This project is going to build a robo-advisor to adjust the MPF distributions by using of machine learning techniques and software developing skills.  Online Certificate: **https://confirm.udacity.com/DHPGSL6D** |
| 2011 – 2015 | BSc(Hons) in Investment science  **Hong Kong Polytechnic University**  This programme is combine with statistics and finance which study the economy in quantitative way. |

Publication

# S. S. Y. Ng ; W. Zhu ; W. W. S. Tang ; L. C. H. Wan ; A. Y. W. Wat 2016. An independent study of two deep learning platforms - H2O and SINGA. IEEE International Conference on Industrial Engineering and Engineering Management

Projects

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| 2018 JUN – 2018 AUG | Freelancer (hired by Procter & Gamble via **Upwork)**  Profile: [**https://www.upwork.com/o/profiles/users/~017c0520ed03e27b5a/**](https://www.upwork.com/o/profiles/users/~017c0520ed03e27b5a/)  Project: SR132a Phase 2 (ML part) Automation and downloading of data from SAP and a website to create DataHub (Feedback：5 out of 5)  Job Duties:   1. Understanding customers needs and discuss with customer IT team for project requirement and provide business solution. 2. Build software for data cleaning, preprocessing job and modeling. 3. Provide software documentation and present to the customer about ideas behind. |

Skills

1. Languages

* Cantonese, English, Putonghua

1. Programming Languages

* Python with varies packages (5 years experience)
* Scientific computing (numpy, scipy)
* Data managing library (pandas, sqlalchemy)
* Webapp libraries (flask, BeautifulSoup)
* Machine Learning libraries like (scikit-learn, tensorflow, keras, opencv)
* Data API like Reuters (eikon), IB gateway (ibapi), Bloomberg API
* R with statistical analysis skill
* Basic C++ and Java with OOP concepts
* Basic Linux and Shell Script
* SQL