Ho Weiwen, Desmond

desmondhw@gmail.com / (65) 97811540

EDUCATION

Singapore Management University

Masters of IT in Business (Analytics)

Aug 2018 –Dec 2019

Modules taken:

Applied Machine Learning (Scikit-Learn, Keras)

Text Analytics (NLTK)

Database Management (MySQL, PHP, ER Diagrams)

Data Analytics Lab (SAS JMP Pro, SAS Enterprise Miner)

Algorithm Design & Implementation

Applied Statistical Analysis with R

IT Project & Vendor Management (based on PMP syllabus)

University of London, International Programme

Sep 2007 – Sep 2011

Bachelor of Science in Banking & Finance

Singapore Polytechnic

April 2018 – Aug 2018

Fundamentals of Data Science Certificate

WORK EXPERIENCE

Ministry Of Health

Jan 2019 – Jun 2019

Post Graduate Intern – Analytics & Information Management

- Extracted, cleaned and combined data from healthcare finance and various care settings.
 - Conducted Exploratory Data Analysis (EDA), Feature Engineering and K-Means Clustering in R for Patient Bill Prediction project which helped Lead Analyst achieve model success.
 - Learnt Tableau in 2 weeks, implemented and presented 2 dashboards for monitoring Adverse Drug Reactions (ADRs) to HSA. Under-reporting of ADRs can thus be tracked. https://desmondhw.github.io/ADR-Dashboards/

Bank of Singapore

Apr 2018 – Dec 2018

Business Analyst – Business Transformation (Contract)

- Facilitated and drove accounts aggregation/analytics project with fintech firm Canopy.
- Won gold position in the bank's first Innovation Hub competition. Team received S\$1 mil to build a platform for classifying research reports and recommending investments.
 Implemented a prototype during master's Text Analytics module (under projects).
- Formulated UAT test plans and prepared data which enabled migration of client statements to digital platforms.
- Scheduled weekly meetings with project managers, business users, IT and vendors.

Caleb Investment Management Pte Ltd

Jan 2017 - Apr 2018

Owner/Futures Trader

- Tested, configured and deployed execution algorithm for strategy with programmer.
- Implemented risk management model by passing real-time data feeds into excel and VBA, capturing spread risk which most platforms lacked.

Brahman Capital Management Pte Ltd

Jul 2015 – Dec 2016

Hedge Fund Execution Trader

- FY 2015: 2-men team returned +40% on 1-2 mil AUM (in AUD, net of fees).
- Created execution algorithms in Trading Technologies Algo Design Lab. Configured and tested in-house algorithms with developers, increasing their performance and returns.

Propex Singapore Pte Ltd

Nov 2011 – Jul 2015

Proprietary Derivatives Trader

• Generated positive returns every year while adhering to firm's daily and monthly loss limits.

Back-tested trading strategy on Python with intern using technical indicators, optimization and cross-validation (under projects).

OTHER EXPERIENCES

Wesley Methodist Church Volunteer

Oct 2011 - Current

Musician

Serve in the music ministry either on bass, electric or acoustic guitar for services.

PROJECTS

Predicting Customer Conversion From Google Merchandise Store

Jun – Aug 2019

Built Python Scikit-Learn machine learning models to predict if customers visiting Google's Merchandise Store would make a purchase in the next 7 days. https://github.com/desmondhw/GoogleMerchandiseProject

Sentiment and Sector Classifier for Investment Research Reports

Jun – Aug 2019

Used text analytics and machine learning models to classify investment research reports by sectors and market sentiment. https://github.com/desmondhw/InvestmentReportsClassifier

Back-test of three-legged bond futures spread trading strategy

Oct 2014 – Mar 2015

Quantitative mean reversion trading strategy using various optimizations and walk-forward. https://github.com/desmondhw/curvetenstens

SKILLS/CERTIFICATIONS/INTERESTS

Proficient: Python, R Programming, Tableau, MS Office.

Familiar with: MySQL, SAS JMP Pro, SAS Enterprise Miner, Minitab, PHP.

Certifications: Python for Data, Ops and things – NUS ISS

Nov 2017

The Coder in You (HTML, CSS, JavaScript) - NUS ISS 22 Jun 2010 – 22 Jun 2013 CMFAS M5

Dec 2017

Health Insurance

24 Jun 2010 - 24 Jun 2010

Languages: Fluent in English and Mandarin.

Hobbies: Mountain-biking, electric bass, basketball, and running.