

## Ho Weiwen, Desmond

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Availability: 27 Dec 2019 onwards

### EDUCATION

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<b>Singapore Management University</b> Master of IT in Business (Analytics)	Aug 2018 – Dec 2019
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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)

<b>University of London, International Programme</b> Bachelor of Science in Banking & Finance	Sep 2007 – Sep 2011
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<b>Singapore Polytechnic</b> Fundamentals of Data Science Certificate	April 2018 – Aug 2018
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### WORK EXPERIENCE

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<b>Ministry Of Health</b>	Jan 2019 – Jun 2019
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Postgraduate 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/>

<b>Bank of Singapore</b>	Apr 2018 – Dec 2018
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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.

<b>Caleb Investment Management Pte Ltd</b>	Jan 2017 – Apr 2018
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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.

<b>Brahman Capital Management Pte Ltd</b>	Jul 2015 – Dec 2016
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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**  
Proprietary Derivatives Trader

Nov 2011 – Jul 2015

- 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**  
Musician

Oct 2011 - Current

- 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

Dec 2017

CMFAS M5

22 Jun 2010 – 22 Jun 2013

Health Insurance

24 Jun 2010 - 24 Jun 2010

**Languages:** Fluent in English and Mandarin.

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