

Han Wei NEO

Data Scientist

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EXECUTIVE SUMMARY

Data Scientist with 5-6 years of experience in building Machine Learning models to solve hard problems using big data. In Singapore's largest bank, I built their first Deep Learning based Recommender System for product advertisements. Besides Data Science, I have a professional passion in joining the dots between multiple stakeholders especially product owners and data engineers.

PROFESSIONAL EXPERIENCE

SENIOR DATA SCIENTIST

Mar 2019—Present

Metis, Singapore

- Led the Metis Data Science Bootcamp in Singapore as the Main Bootcamp Instructor and Senior Data Scientist.
- Past Cohorts:
 - San Francisco – Spring 2019 (April 2019 – June 2019)
 - Singapore (July 2019 – September 2019)

FOUNDER

Jun 2019—Present

CodeAI, Singapore

CodeAI is a professional Python and Data Science Coaching Institute.

- Founded CodeAI with the aim of improving coding literacy in Singapore by providing quality and accessible programming classes.

DATA SCIENTIST

Jul 2018—Mar 2019

PALO IT, Singapore

- Deployed an asynchronous **R** model as an API using plumber, future, docker on **MS Azure** for a Reinsurance company in Australia.
- Built POCs on **Object Detection**, **Natural Language Processing** and **Sentiment Analysis**.

DATA SCIENTIST

Oct 2016—Jul 2018

DBS Bank, Singapore

- Responsible for building Machine Learning models for DBS Bank's regional markets: Singapore, Hong Kong and China.
- Developed a **Deep Learning based Recommender System** for product advertisements on internet and mobile banking in Singapore using **Keras**, **TensorFlow** and **Python**.
- Developed the User-Based Collaborative Filtering Recommender System in China using **R**.
- Built models that attained at least 4X uplift for **multiple cross-sell, up-sell** and **acquisition** projects across numerous products using **R** and **Python**.
- Created a Machine Learning pipeline in **R** using **H2O** and **R Shiny**. Used by other co-workers.
- Mentored fresh hires in building Machine Learning models.

KEY SKILLS

Python
Keras
TensorFlow
Machine Learning
Deep Learning
PySpark
R
PostgreSQL
MongoDB
Distributed Computing
(Hive/Hadoop)
AWS
MS Azure
Docker
Apache Pig
Git
SAS
Tableau

EDUCATION

National University of Singapore
Master of Computing, Computer Science 2019

National University of Singapore
Bachelor of Science (Hons), Statistics 2015

- Second Upper
- Won 1st Prize in a R Programming competition open to all Singapore universities undergraduates.
- Co-wrote a R package on Hamiltonian Monte Carlo method for Final Year Project (See [elhmc](#)).

DATA ANALYST
StarHub, Singapore

June 2015—Sep 2016

The Hong Kong University of
Science and Technology
Summer Student Exchange
Program 2014

- Mined terabytes of raw, unstructured and structured telecommunication data using **Apache Spark**, **Pig**, **R** and **Python**.
- Developed geo-location algorithms to uncover subscribers' travelling and web-surfing behaviors.

Other Activities

MOOCs

2014—Present

- Completed 34 MOOC courses (as of Aug 2019) that are related to Data Science.
- Completed 3 Coursera specialisations (Data Science, Deep Learning and TensorFlow in Practice).

Kaggle

- Top 8% for Walmart Recruitment Competition (78th/1047)

Agile Fundamentals

- ICAgile Certified Professional

MISCELLANEOUS INFORMATION

Languages

- Native Proficiency in English and Mandarin (Oral and Written)