

Xu Xinyi

+65 9396 9005 • michaelxysg@gmail.com

Education

- **National University of Singapore (NUS)** **Singapore**
Double Degree in Computer Science (Hons) and Applied Mathematics Aug 2015 - Jan 2020
- **Hwa Chong Institution** **Singapore**
A-level, GP(A) Economics(A) Maths(A) Physics(A) Chemistry(A) PW(A) Jan 2013 - Oct 2014
- **Hwa Chong Institution** **Singapore**
Secondary 3 and 4, SMTP class, Integrated Programme Jan 2011 - Oct 2012

Work Experience

- **Data Analytics Intern** **Singapore**
Catena Technologies May 2018 - Jul 2018
 - Took initiative to learn about the trade reporting business and analyzed its procedures and thereafter designed several KPIs from the data analytics perspective. **The KPIs were adopted by the team as performance metrics.**
 - Designed and implemented an interactive dashboard in python, and incorporated it to company's demo to clients and contributed to **signing one of the largest clients.**
 - Spearheaded in carrying out data analytics, in R and python and found **previously undiscovered inter-correlations.**
- **Artificial Intelligence Engineer Intern** **Singapore**
Sompo Holdings May 2017 - Aug 2017
 - Self-motivated to pick up machine learning theories, and conducted reports and presentations, during which I explained clearly the complicated concepts. **The reports and presentation decks were later circulated internally.**
 - Implemented machine learning algorithms including SVM, RNN and RandomForest and I completed a research paper that **served a key role in the company's proof-of-concept project.**
 - Coordinated and effectively collaborated with different teams members from US, Japan, India and Singapore. Took charge of overseeing the project progress and completed internal evaluation reports to the management level and **received very positive feedback.**

Scholarship and Awards

- **Science and Technology Scholarship from NUS**
 - Awarded for my junior college performance when I enrolled in NUS.
- **SM1 Scholarship from Ministry of Education**
 - Awarded for my secondary school performance when I enrolled in Hwa Chong Institution.

Projects

- **Implemented data modeling techniques and machine learning algorithms**
 - Built a Tetris A.I. that could clear **millions of rows**.
 - Implemented a classifier model that can classify a driver's action with **80% accuracy**.
- **Developed an interactive dashboard on financial data**
 - Developed components for **real-time stock ticks** and for **live tweet feeds** based on keyword filtering.
 - Scrapped the web for **financial data** for selected companies and designed and implemented **artificial intelligence and mathematical models to predict their future performances**.
- **Financial statement analysis**
 - Developed parallel programs to download and manage **tera-bytes of data** from SEC official repository of public financial statements of companies.
 - In progress of formulating algorithms and writing programs to automate **data extraction and trend analysis**.