

# Nicholas WAN

DATA SCIENTIST · BUSINESS ANALYTICS MAJOR



[nicholaswan@live.com.sg](mailto:nicholaswan@live.com.sg)



<http://www.nicwan.me/>



[live:nicholaswan](https://live.nicholaswan)



<https://github.com/nicholas-wan>

## Education

### National University of Singapore

Singapore

HONOURS IN BUSINESS ANALYTICS

Aug. 2017 - Present

- NUS Merit Scholarship
- Cumulative Average Point: 4.66/ 5.00
- Expected Date of Graduation: Dec 2020 (3.5 Years)

## Skills

**Programming** Python · R · HTML/CSS · Java · Javascript

**Database** MySQL · MongoDB

**Frameworks** Spark · VueJS · MeteorJS

**CI** Git

**Multimedia** Adobe Photoshop · Adobe Premier Pro · Adobe After Effects · Adobe Audition

## Internship

### Shopee

Singapore

DATA SCIENCE

Apr 2020 – Present

- Created NLP models to perform multiclass classification on product titles and descriptions to predict product attributes.
- Performed NLP on multiple languages including English, Chinese, Thai, Indonesian and Vietnamese.
- Maintained the pipeline of obtaining prediction samples for other departments to review.

### The League

San Francisco

DATA SCIENCE

Aug 2019 – Apr 2020

- Created and productionized a Machine Learning model to predict catfishers and bad users leading to the customer support team saving 30% of time reviewing profiles and improving the trust and safety in the community.
- Set up an alert system for over 20 key company metrics such as Revenue, DAUs, Churn, using Periscope / Sisense to notify stakeholders through Slack.
- Performed Statistical modelling through regression models such as Diff in Diff, IV Regression, Fixed Effect models to advise product decisions.
- Conducted AB Testing experiments with power analysis and statistical significance tests to inform product decisions.
- Experience with creating, scheduling, monitoring and debugging jobs using Airflow.

### National University Hospital

Singapore

DATA SCIENCE

Dec 2018 – Jun 2019

- Created a model for predicting patient readmission within a 30 day period, using Natural Language Processing and Neural Networks, and Random Forests.
- Worked on generating a realistic synthetic dataset to be released to the public and used in Hackathons.
- Automated the process of extracting information from Free-Text form for Gastro-Translational Research.

## Project

### StreetCredit

[bit.ly/streetcredit](https://bit.ly/streetcredit)

- Conceptualized and prototyped a solution that allows crowdfunded micro-loans for students.
- Won 1<sup>st</sup> Place in Financial Inclusion Hackathon organized in San Francisco.

### Hack4Climate

[bit.ly/blizzard-yale](https://bit.ly/blizzard-yale)

- Created a website to show how different stakeholders (Country / City / Industries) are affecting the environment, using Data Visualisations with Plotly.
- Won 1<sup>st</sup> place in YaleNUS Hackathon in the Data Science Category, [Hack4Climate](#).

### Algorithm for Forex Trading

[bit.ly/algo-forextrade](https://bit.ly/algo-forextrade)

- Used Keras' LSTM to implement a trading model that was slightly profitable.
- Used the values various technical indicators for volume, momentum, trend, and volatility as features for the model.