# Nicholas WAN

DATA SCIENTIST

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## Education

**National University of Singapore** *Singapore*

Bachelor of Science in Business Analytics (Honours)　　　　　　　　　　　　　　Aug 2017 – Present

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

## Skills

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|---:|---|
| **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 |

## Experience

**Shopee** *Singapore*

Data Science　　　　　　　　　　　　　　　　　　　　　　　　　　　　Apr 2020 – Present

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

**The League** *San Francisco*

Data Science　　　　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2019 – Apr 2020

- Implemented Machine Learning models detecting suspicious users saving customer support team up to 30% of time reviewing profiles, improving trust and safety among users.
- Set up an alert system for over 20 key company metrics such as Revenue, DAUs, Churn through 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.
- Engaged in creating, scheduling, monitoring and debugging jobs using Airflow.

**National University Hospital** *Singapore*

Data Science　　　　　　　　　　　　　　　　　　　　　　　　　　　　Dec 2018 – Jun 2019

- Predicted patient readmission within a 30 day period with NLP, Neural Networks and Random Forests.
- Generated a realistic synthetic dataset to be released for public use and for a NUH Hackathon.
- Automated process of extracting information from Free-Text form for Gastro-Translational Research.

## Project

**StreetCredit**　　　　　　　　　　　　　　　　　　　　　　　　　　　　bit.ly/streetcredit

- Conceptualized and prototyped a solution allowing crowdfunded micro-loans for students.
- Won 1st Place in Financial Inclusion Hackathon organized in San Francisco.

**Hack4Climate**　　　　　　　　　　　　　　　　　　　　　　　　　　　bit.ly/blizzard-yale

- Created a website to show how environmental impact of different stakeholders (Country / City / Industries) through Data Visualisations with Plotly.
- Won 1st place in YaleNUS Hackathon in the Data Science Category, Hack4Climate.

**Algorithm for Forex Trading**　　　　　　　　　　　　　　　　　　　　　bit.ly/algo-forextrade

- Built a slightly profitable trading model based on Keras' LSTM.
- Incorporated technical indicators for volume, momentum, trend, and volatility as model features.