

Nicholas WAN

DATA SCIENTIST



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



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

Education

National University of Singapore

Singapore

BS.C BUSINESS ANALYTICS (HONS), HIGHEST DISTINCTION

Aug. 2017 – Dec 2020 · 3.5 yrs

- NUS Merit Scholarship
- Cumulative Average Point: 4.66/ 5.00
- NUS Overseas Colleges (Silicon Valley)

Stanford University

NON GRADUATING OPTION

Aug. 2019 – Apr 2020 · 9 mos

- Mining Massive Datasets – Grade Obtained: A
Topics Include: Frequent itemsets and Association rules, Near Neighbor Search in High Dimensional Data, Locality Sensitive Hashing (LSH), Dimensionality reduction, Recommendation Systems, Clustering, Link Analysis, Large-scale Supervised Machine Learning, Data streams, Mining the Web for Structured Data, Web Advertising.
- The Spirit of Entrepreneurship

Skills

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

Database MySQL · MongoDB

Frameworks Spark · VueJS

CI Git

Experience

Defence Science and Technology Agency

Singapore

ENGINEER (CYBER AI)

Jan 2021 – Present · 1 yr 5 mos

- AI and Machine Learning solutions to defend against Cybersecurity threats.
- Developed models to detect Phishing based on URL and Website Screenshots which successfully detected Phishing websites. Automated the alerts in the forms of PDF reports to be sent in emails to stakeholders to take action.
- Created a Tech Showcase (Website) for BrainHack 2021, an annual DSTA organised event. The showcase was voted by participants as the top showcase out of 27 showcases.

Shopee

Singapore

DATA SCIENCE INTERN

Apr 2020 – Nov 2020 · 8 mos

- 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 INTERN

Aug 2019 – Apr 2020 · 9 mos

- 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 INTERN

Dec. 2018 – Jun 2019 · 8 mos

- 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.

Certifications

Advanced Natural Language Processing and Temporal Sequence Processing

Red Dragon AI

- Topics include: Named Entity Recognition, RNNs, Embeddings, Seq2Seq, Neural Machine Translation, Text Generation, BERT, Transformers, Intent Classification, Chatbots.