

# NGUYEN DANG THANH HA

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## EDUCATION

### SINGAPORE MANAGEMENT UNIVERSITY

Aug 2015 – Present

- Bachelor of Science (Information Systems) with 2<sup>nd</sup> major in Advanced Technology for Analytics
- Expected date of graduation: May 2019

## PROFESSIONAL EXPERIENCE

### THOMSON REUTERS – *Natural Language Processing (NLP) Engineer (Intern)*

May 2018 – Aug 2018

- Supported Data Engineer team of 4 members to deploy the NLP deep learning model, which extracts structured information from unstructured text, into the low-latency Thomson Reuters Intelligent Tagging (TRIT) platform using Java. It is the same service that powers Thomson Reuters Eikon and Reuters News.
  - o Developed a custom tokenizer that is used as the foundation for subsequent processors such as sentence splitter, lemmatizer and part-of-speech tagger.
  - o Performed micro-benchmarking to measure the performance of the deep learning model deployed.
- Measured the semantic similarity of training text data and removed large number of similar texts.
- Developed an assessment pipeline using Python to streamline the process of evaluating the accuracy of deep learning models. This pipeline reduces the time for model evaluation by 1 hour.
- Developed a custom web API demo of TRIT using Python for investment professionals.

### GENERAL ELECTRIC (HEALTHCARE) – *Business Analyst (Part-time Intern)*

Oct 2017 – April 2018

- Collaborated with finance, operations and commercials departments to understand their needs to come up with effective KPIs and explore possibilities of process improvements using data analytics.
- Created 4 new dashboards that streamline the decision-making process by generating real-time analysis, reducing more than 2 hours of creating weekly reports and set the cornerstone for more self-service analytics.
- Spearheaded a business process documentation project with 3 other interns to enhance operational consistency and set the cornerstone for future analytics initiatives.

### SMU – TCS ICITY RESEARCH LAB – *Data Science Research Assistant*

May 2017 – Aug 2017

- Analysed the sleep data of elderly in 2 years and utilized Extended Changepoint Model for Statistical Process Control using Nonparametric Mann-Whitney test to detect abnormal changes in the sleep pattern of elderly. Detection of such changes is important because it is the indication of a changing health pattern.
- Researched and compared a new unobtrusive sleep monitoring method, which uses only motion sensors and door contacts, with existing methods that are being used around the world to measure sleep quality.
- Presented research findings in a technical paper titled "Change Detection Method for Elderly Sleep Patterns Using Motion Sensors" that is used for Internet of Things technology conferences.

## LEADERSHIP EXPERIENCE

### SMU Business Intelligence & Analytics – *Curriculum Developer*

Oct 2017 – Present

- Design the curriculum for workshops on data analytics using Python and data visualization using Tableau.
- Work with a team of 17 executive members to develop a community for everyone to learn analytics together.

### SMU Project Chong Chong 6 – *Team Leader*

Dec 2016 – Apr 2017

- Led a team of 16 Singaporean members to a village in Cambodia – Vietnam boundary to teach English.
- Organised a fundraising event and successfully raised around 2,000SGD to help the underprivileged children.

## SKILLSET & OTHER INFORMATION

### Programming Languages:

### Tools:

### Data Analytics Concepts:

### Development Concepts:

Java, Python, SQL, HTML, CSS (In order of proficiency)  
GitLab, Tableau, TIBCO Spotfire, SAS Enterprise Guide  
Database Design, Data Cleaning, Data Visualization,  
Data Mining, Natural Language Processing  
Test-driven development, Concurrent programming,  
Object-oriented programming