

# 窦岱晖/DOU DAIHUI

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## EDUCATION

**New York University, New York, US** 09/2019-06/2021  
**MS in Computer Science** CGA: 3.933/4.000

**Hong Kong University of Science and Technology, Hong Kong** 09/2015-06/2019  
**B.Eng in Computer Science** CGA: 3.414/4.300

**University of Minnesota, Minneapolis, US** 09/2018-12/2018  
**Exchange Program** CGA: 3.513/4.000

## RESEARCH & PROJECT EXPERIENCE

**Quantitative Trading System with Text Mining at HKUST** 09/2018-05/2019

- Final Year Project supervised by Prof. Dik-Lun LEE, Department of Computer Science and Engineering, HKUST.
- Crawl stock prices and relevant financial news from webpages as the training and test data. Develop a Reinforcement Learning with Text Mining system to predict and trade stocks and achieve great benefits.

**Siamese Neural Network for One-shot Learning at HKUST** 02/2019-05/2019

- Improve Siamese Neural Network (SNN) for one-shot learning on colored dataset (Caltech 101). Introduce self-attention mechanism to SNN and achieve an improvement of 23% on accuracy.

**Automated Essay Grading at University of Minnesota** 10/2018-12/2018

- Develop an automated machine learning algorithm to grade student essays, using the dataset provided by Kaggle. Implement the algorithm using tf-idf vectorization followed by multi-layer LSTM model.

**Web Crawler & Search Engine at HKUST** 02/2018-05/2018

- Crawl text of thousands of webpages and construct the database including inverted indices of each stemmed word and other information.
- Build a search engine that can retrieve webpages based on user-input keywords, sorted by relevance scores in descending order.

## WORK & INTERNSHIP EXPERIENCE

**Graduate Assistant at High Speed Networking Lab, NYU, New York, US** 09/2019-06/2020

- Conduct researches on network traffic classification.
- Collect traffics of different websites and build machine learning models to classify the traffics.

**Web Development Internship at Entrepreneurship Center, HKUST, Hong Kong** 01/2018-02/2018

- Develop webpages in Laravel framework and update information for a business competition.
- Rewrite the old webpages in Laravel framework.

## EXTRACURRICULAR EXPERIENCE

**Welfare & Public Relations Secretary at Film Society, HKUSTSU, Hong Kong** 03/2016-03/2017

- Manage society inventories. Promote film culture, recent functions, and Film Society to all HKUST members on WeChat, Facebook, and Instagram.

## LANGUAGE & TECHNICAL SKILLS

- **Programming:** Python, Java, C++, HTML, CSS, JavaScript, PHP, SQL
- **Others:** AWS, Linux, TensorFlow, Keras, Spark, MySQL, Git, D3.js, Latex, Microsoft Office
- **Languages:** Mandarin (native), English (proficient)

## AWARDS & SCHOLARSHIPS

- **Graduate Scholarship** from NYU, 2019
- **University's Scholarship Scheme for Continuing Undergraduate Students** from HKUST, 2016
- **Dean's List** from HKUST, 2016