

DAIHUI DOU

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EDUCATION

New York University, New York, US 09/2019-06/2021
MS in Computer Science CGA: N/A

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.
- Build a Reinforcement Learning with Text Mining system to predict and trade stocks. Stock prices and relevant financial news are crawled from webpages as the training and test data.

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

- The project is to improve Siamese Neural Network (SNN) for one-shot learning on colored dataset (Caltech 101). Our group introduced self-attention mechanism to SNN and achieved an improvement of 23% on accuracy.

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

- The project is to develop an automated machine learning algorithm to grade student essays, using the dataset provided by Kaggle. Our group implemented the algorithm using tf-idf vectorization followed by multi-layer LSTM model.

Indoor Localization and Mobile Computing at HKUST 06/2018-08/2018

- Research project supervised by Prof. Shueng-Han Gary CHAN, Department of Computer Science and Engineering, HKUST.
- Responsible for data processing programs in Python that implement an automated workflow to generate Wi-Fi fingerprint map from raw data through REST API of the data server.

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

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

- Write new webpages and update information for a business competition based on original pages. Rewrite the old webpages using *Laravel* framework.
- Learned *Laravel* PHP web framework. Used JavaScript, HTML and CSS.

LANGUAGE & TECHNICAL SKILLS

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

AWARDS & SCHOLARSHIPS

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