QIUSHI SUN

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EDUCATION

- **National University of Singapore** — Singapore
  MS in Data Science and Machine Learning — *August 2022 - December 2023 (Expected)*
- **East China Normal University** — Shanghai, China
  B.Eng in Data Science and Engineering; GPA: 3.74/4.0 — *September 2018 - June 2022*
  Main Courses: Data Structures, Computer Systems, Algorithms, Machine Learning, Statistics, Distributed Systems, Database Systems
- **Imperial College London** — Remote(Due to COVID)
  Exchange Program: Data Science Winter School GPA: 4.0/4.0 — *2021 Winter*
  Topic: Data Science & Computer Vision

SKILLS SUMMARY

- **Languages/Tools**: Python, SQL, LaTeX
- **Frameworks**: PyTorch, Keras, Flask

HONORS AND AWARDS

- Shanghai Outstanding Graduates, Shanghai Municipal Education Commission - April, 2022
- Outstanding Student of East China Normal University - November, 2021
- First Class Scholarship, East China Normal University - October, 2021
- Finalist(Special Class Prize), Interdisciplinary Contest in Modeling (Portfolio) - May, 2021
- Third Class Scholarship, East China Normal University - November, 2020
- Honorable Mention(Second Class Prize), Mathematical/Interdisciplinary Contest in Modeling - May, 2020

RESEARCH EXPERIENCE

- **Knowledge Distillation of Programming Language Models** — East China Normal University
  Research Assitant — *July 2021 - November 2021*
  - **Instructor**: *Prof. Xuesong Lu.*
  - **Knowledge Distillation**: Distill Knowledge from Programming Language Pre-training Model(CodeBERT) into relatively simple Neural Networks like BiLSTM
  - **Application**: Implement the Distilled model for Low-latency Fault/Defect/Clone Detection of Codes
- **"Clickbait" News Headlines Detection and Rewriting (Portfolio)** — East China Normal University
  Research Assitant — *September 2020 - June 2021*
  - **Instructor**: *Prof. Ming Gao.*
  - **"Clickbait" News Detection**: We Added additional information during the Fine-tuning stage of BERT to enhance the accuracy of "Clickbait" News Detection.
  - **News Headlines Rewriting**: Based on the task of "Clickbait" News Detection, we employed Contrastive Learning method in the GPT-2 news headlines generation.

WORKING EXPERIENCE

- **School of Data Science and Engineering** — East China Normal University
  Teaching Assitant for Course: Deep Learning for Computer Vision — *September 2021 - January 2022*
  - **Instructor**: *Prof. Xuesong Lu.*
  - **In-Class Responsibilities**: Q&A and Debug in the experimental class
  - **Out-Class Responsibilities**: Grade assignments and provide course feedback to the lecturer
- **GEC Academy** — Remote Online
  Student Advisor & Teaching Assistant — *May 2021 - November 2021*
  - **Overview**: Followed lectures of Prof. *Mark Vogelsberger* of MIT and explained Deep Learning algorithms to students
  - **Main Duty**: Helped students to understand and implement Deep Learning models, and guided them to complete assignments, class projects, and presentations
  - **After-class Works**: Answered students' FAQs on weekly office hours, and led students to explore extracurricular knowledge about deep learning

PROJECTS EXPERIENCE

- **"DaSE Quora": A Course Guidance System Based on Educational Knowledge Graph**: We designed and implemented a learning guidance system, aiming for university students to search knowledge points related to Probability Theory and Data Structure courses. The project is based on a knowledge graph, which is constructed through collecting data from textbooks and Wikipedia. (DaSE means "Data Science and Engineering") (Portfolio)

  Instructor: Prof. Weining Qian., Prof. Ming Gao.

- **An Auxiliary System for Programming Language Learning based on Online Judge Platform**: Our group redeveloped an existing Online Judge Platform, adding functions that include exercise recommendation, error type prediction and analysis.

  Instructor: Prof. Weining Qian.