Xingxuan Li

Mobile: +65 83582064 | Email: xingxuan001@ntu.edu.sg
LinkedIn: www.linkedin.com/in/xingxuan-li | Website: https://xingxuanli.github.io/

EDUCATION

Doctor of Philosophy (Artificial Intelligence)   **Aug 2021 to Present**
- School of Computer Science and Engineering
- Nanyang Technological University, Singapore
- Alibaba DAMO Academy, Singapore
- Supervisors: Shafiq R. Joty, Bing Lidong

Master of Computing (Artificial Intelligence)   **Jan 2020 to Jun 2021**
- School of Computing
- National University of Singapore, Singapore

Bachelor of Engineering, Honours (Artificial Intelligence)   **May 2016 to Sep 2019**
- Information Systems Technology and Design
- Singapore University of Technology and Design, Singapore

RESEARCH INTERESTS

- Natural language processing, Machine learning, Artificial intelligence, Quantitative trading

SCHOLARSHIPS & AWARDS

Alibaba Talent Program   **Aug 2021 to Present**
- Joint Ph.D. program scholarship from Alibaba DAMO Academy and Nanyang Technological University

NUS I&E Practicum @ SoC   **Oct 2020**
- Awarded $10,000 by School of Computing and NUS Enterprise

SUTD Design and Engineering Scholarship   **May 2016 to Sep 2019**
SM2 full scholarship awarded to top 5% of the cohort

PROFESSIONAL/RESEARCH EXPERIENCE

Co-Founder & CTO, Everything Analytics   **Jun 2020 to Jul 2021**
- Lead a team of 6, applied machine learning approach to deliver accurate, unbiased and most suitable recommendations of Universities' post graduate programs which students should apply to base on their current academic background and personal preferences. Applied feature engineering and finetuned the model to achieve an overall accuracy above 70%
- On top of the core post graduate services, developed a similarity driven algorithm to connect users with peers and seniors to promote companionship and offer guidance in a p2p manner
- Researched and developed optimized database structure to utilize resource usage. Designed and lead the development of backend system in Python

Project Officer, Webank-NTU Research Center   **Feb 2021 to Jun 2021**
- Lead a project on technical indicator digging from financial report in China market
- Implemented graph networks on supply chain and shareholder data to get embedding and trained a subsequent neural network to optimize ordinary technical indicators and increased RankIC by 20%

Risk and Quantitative Analyst, Gunvor Group Ltd   **Oct 2019 to Feb 2021**
- Developed and backtested data-driven quantitative strategies on commodity trading using Python. With news sentiment data, developed attention neural network to generate trading signal and improved performance significantly
- Developed and automated in-house risk system using Python which reduced processing time significantly

Project Lead, AI Corrosion for Ship Inspection (Alpha Ori Technology)   **Sep 2018 to Sep 2019**
- Proposed a hybrid approach of using deep-learning models with image processing techniques for ship corrosion detection, by achieving image quality assurance (NIMA model), image segmentation (U-Net) and corrosion severity classification. The novel deep-learning approach of corrosion detection sparked the interest of the local maritime companies to AI evolution
- Designed and implemented a scalable system framework, consisting of an integrated web-based and light-weighted mobile application, facilitated by Amazon Web Services cloud storage and compute services

Cyber Security Intern, KPMG Singapore   May 2018 to Aug 2018
- Implemented host security assessments for 200+ servers and appliances, using Microsoft Excel, by collaborating with clients and Center for Internet Security (CIS), exploiting and eliminating 2000+ vulnerabilities for various clients
- Developed a Python package, by using requests Python libraries to automate Nessus host assessment which is being used for 100+ hosts, reduced processing time by 500%

Research Assistant, SUTDNLP Research Group (Professor Zhang Yue)   **Mar 2018 to Jul 2018**
- Researched and experimented in NLP annotation tools, participated in the development of YEDDA, the novel annotation tool and explored the recommendation system with Conditional Random Field algorithm.
- YEDDA attracted more than 600 stars in GitHub

Technology Intern, Deloitte Singapore   **May 2017 to Aug 2017**
- Provided Identity Management, especially Key Management Service for banking client to manage security tokens
- Develop a Python tool independently for internal use, to transfer file formats among xml, json and txt
- Organized Deloitte Cyber Bootcamp 2017 of Asia Pacific region as logistic lead, coordinated 150 cyber professionals from 9 countries and prepared training materials for Identity Management Track

PUBLICATION
- Yang, J., Zhang, Y., Li, L., & **Li, X**. (2018). YEDDA: A Lightweight Collaborative Text Span Annotation Tool. Proceedings of ACL 2018, System Demonstrations. (**Best Demo Paper Award Nomination**)

TEACHING EXPERIENCE & CO-CURRICULAR ACTIVITIES
Teaching Assistant, Modeling the System World (Linear Algebra)   **Dec 2017 to Apr 2018**
- Prepared materials and helped tutor 500 of my peers to bolster their understanding of the basic math behind AI science.

Pianist & Event Facilitator, SUTD Chinese Culture Club   **Oct 2016 to Sep 2019**
- Executed a Chinese Language Learning Workshop via Taobao, Chinese for 30+ students and professors.
- Pianist for various important events, including SUTD Art Festival, SUTD Chinese New Year and so on.

ADDITIONAL INFORMATION
- Fluent in English and Mandarin (spoken and written)
- Proficient in Python, PyTorch, Java and Mongo Database
- Familiar with TensorFlow and other Deep/Machine Learning libraries