Jingtun Zhang

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Objective position:Software Engineer (R & D)

Github: OrdinaryCrazy [Link]

Education

- **Texas A&M University** — College Station, TX, USA
  Master of Computer Science (MCS) **GPA: 3.5/4.0**, Supervisor: Prof. Shuiwang Ji [Link] — Aug. 2020 – Dec. 2022
- **University of Science and Technology of China** — Hefei, Anhui, China
  Bachelor of Computer Science and Technology, **GPA: 3.67/4.30** — Aug. 2016 – July 2020

Experience

- **Tiktok.Inc** — Bellevue, WA, USA
  Software Engineer (R & D) — Feb. 2023 – Now
  - ByteGNN project contributor: algorithms research, implementation and testing, dataset building and evaluation, customer service and supporting.
- **DIVE Lab @ Texas A&M University** — College Station, TX, USA
  Research Assistant, Supervisor: Prof. Shuiwang Ji — July 2020 - Dec. 2021
  - Assisted in building up and finetuning a robust self-supervised learning graph neural networks framework on OGB dataset and OC20 Challenge for biomedical drug moleclues' filtering and property prediction.
- **SenseTime @ Beijing** — Haidian, Beijing, China
  Research Assistant, Supervisor: Dr. Wenxiu Sun — Feb. 2020 - June 2021
  - Built an animation frame interpolation dataset from scratch and framework for preprocessing and benchmarking a wide range of frame interpolation algorithms on the animation video.
- **Univeristy of California, Santa Barbara** — Santa Barbara, CA, USA
  Summer Research Intern, Supervisor: Prof. Yufei Ding — July 2019 - Sep. 2019
  - Utilized motion-vector information to accelerate video object detection as part of a MxNet-architecture compiler framework project for deep video stream processing like MSRA-DFF.
  - Attempted to build a more complicated MV-Net to improve the quality of motion vector used at feature map level, rather than just scale the motion vector by 1x1 convolutional layer, getting **MAP@5 = 0.6225**.

PROJECTS

- **(Challenge) Open Catalyst Challenge (Rank #3)** [Link] — Aug. 2021 - Oct. 2021
  - Built machine learning models to simulate the relaxtion process of a molecular system.
  - Programed dataset preprocessing and profiling to differentiate the distribution of adsorbate and catalyst.
  - Splited dataset by the distribution of the system to train models on different subsplits to ensemble.
- **(Open Source Library) Dive Into Graphs (Stars 900+)** [Link] — Oct. 2019 - July. 2021
  - Implemented a unified library for graph deep learning algorithms, data interface and baseline.
  - Coded for data loading, preprocessing and evaluation strategies of graph self-supervised learning part.
  - Achieved better or comparable results and computation complexity than most authors' code.
- **(Website) Kayak for Mask** [Link] — Oct. 2021 - Dec. 2021
  - Built a Kayak-like website for kid's mask searching and filtering.
  - Based on Django framework and able to update information by spidering online sheets and store pages.
  - Deployed on Heroku [Link] by docker images to serve as public resource for fighting Covid-19.

PUBLICATIONS

- Xie, Y., Xu, Z., **Zhang, J.**, Wang, Z. and Ji, S., 2021. Self-supervised learning of graph neural networks: A unified review. arXiv preprint arXiv:2102.10757. [Link]
- Liu, M., Luo, Y., Wang, L., Xie, Y., Yuan, H., Gui, S., Yu, H., Xu, Z., **Zhang, J.**, Liu, Y. and Yan, K., 2021. DIG: A Turnkey Library for Diving into Graph Deep Learning Research. (**JMLR2021**) [Link]

SELECTED AWARDS

- **National Scholarship** Hefei, Anhui, China
  For Top 5 percent Student Sep. 2018

Programming Skills

- **Languages**: Python, C/C++ **Technologies**: Pytorch, Tensorflow/Keras