Mingxing Zhao

Python,C++,Java

(+86) 188 1086 0130
zhaomingxingDL@gmail.com
igoingdown.github.io
igoingdown

RSDE

Education

2016–2019 **M.S. in Computer Science**, ***State Key Laboratory*** *of Network and Switching Technology*, Beijing University of Posts and Telecommunications, GPA 79/100.

2012–2016 **B.E. in Network Engineering**, *School of Computer Science*, Beijing University of Posts and Telecommunications, GPA 76/100, **CET6: 536**.

Honors

- Beauty of Programming 2017, **2/1118**
- Baidu & XJTU Big Data Competition, **10/1393**
- HackPKU 2017, **Champion** of **Lane Detection**
- Outstanding Student Cadre, **1%**
- **Second Prize** in 14th National Mathematical Contest in Modeling for Graduate Students

Internships

May, 2018 – Present **Research Intern**, *Microsoft Research Asia*.

- Developed and deployed **VGG-like** model on real-world PowerBI dataset with word embedding whose weights was computed with TF-IDF. Finally **RF** increased precision by 8% comparing to the VGG-like model.
- Hacked Name Conflict problem in Excel with AHK increasing the speed of data extraction by 150%.

Feb. – Jun. 2017 **Software Develop Intern**, *Tenxcloud Tech*.

- Developed and deployed **distributed VGG model** based on **tensorflow** with **multi-CPU and multi-GPU parallelization**, increasing training speed by **80%** comparing to standalone model.
- Developed **a new version of public cloud administration application**, implementing docker clusters' **real-time monitoring** based on **kubernetes** with **beego framework**, **Go** and **angular JS**.

Projects

Dec. 2016 – Present **Knowledge-Based Question-Answering(KBQA) with Deep Learning**.

- Based on **semantic parsing**, implemented **attentive seq2seq** model to solve **simple KBQA** problem and **deep RL** model to solve **complex KBQA** problem with **pytorch**.
- Initialize RL model with fake gold answer found by Machine Learning method, **increasing accuracy by 29.7%**.
- Used **multiprocessing** and asynchronous method in RL model, **increasing training speed by 617%**.

Apr. – Aug. 2017 **Microsoft's Beauty of Programming 2017**, *Second Prize*, ***2/1118***.

- Implemented an **seq2seq attention model** with **copy mechanism** using **pytorch**, ranking **13/1118**.
- Implemented a bot to answer questions about our university based on **luis** and **bot framework**, ranking **2/200** in the Final. **I implemented the backend of the bot**, including **dialog management** system, **database** and a **search engine** based on **TF-IDF** to retrieve information base constructed by a **real-time web crawler**.

Publications

X. Cheng, *S. Su, S. Xu, L. Xiong, K. Xiao and* ***M. Zhao****. A Two-Phase Algorithm for Differentially Private Frequent Subgraph Mining.* ***IEEE Transactions on Knowledge and Data Engineering****, 30(8):1411-1425, 2018.*