JIE WANG

blog.itworkonline.top | jie.wang-1@colorado.edu | (720)755-0929

EDUCATION

Bachelor of Science Computer Science (GPA:3.4/4.0) *Jan 2017 - May 2020*

University of Colorado Boulder

Master of Science Computer Science *Expected: Aug 2020 - May 2022*

University of Colorado Boulder

Related course work: Data Structure, Computer System, Software Development Tools, Discrete Structure, Algorithm (Summer Stanford), Introduction to Robotic, Human Center Design, Human Center Computing Professional Development, Principle Programming Language, Natural language processing, Machine learning on Coursera

SKILLS

Programming Language or skills: Python, C++, Quality assurance, Basic JavaScript, Scala, HTML5, CSS, Basic SQL

Tools: Git, Linux, remote server experience, Pytorch, Sublime, Juypter Notebook, Arduino, Photoshop

ENGINEERING EXPERIENCE

Research Assistant *NLP lab, CU Boulder* *Aug 2019 - present*

- Built a classifier to predict which tweet will be retweeted more by using **BERT** as language model
- Tested the performance of different encoding methods by scientific experiment method
- Achieved 69.4% accuracy with new **classifier** compared with 66.5% cross validation accuracy in original paper by Chenhao Tan

Math tutor and learning assistant *Department of Mathematics, CU Boulder* *Aug 2018 - present*

- Assisted college student to solve calculus, linear Algebra homework at the Math Academic Research Center
- Taught in pre-calculus course, enhanced communication skill and teaching ability

ENGINEERING PROJECTS

Sentiment analysis based on BERT *Independent Study With Prof. James Martin*

- Reproduced by LSTM using Tensorflow and tested on Juypter Notebook
- Replicated sentiment analysis using BERT
- Conducted experiments to understand relationship between hyper-parameters

Language model for predicting retweets based on BERT *Independent Study With Prof. Chenhao Tan*

- Trained a binary classifier by using pytorch-transformer from huggingface
- Understood and analyzed the theory of BERT's tokenization and encoding

Suicide prediction based on BERT *Audited in data mining course work*

- Collaborated with data mining group and built a classifier based on BERT
- Analyzed the data set and implemented 97.8% dev accuracy based on data from *weibo*

Game building on hardware

- Soldered transistors, LED and switch button on PCB board to build a programmable platform
- Programmed on Arduino in C to control the display and built T-Rex game on hardware.

LEADERSHIP EXPERIENCE

Co-Founder of trade tech-company *Mini program based on Wechat, Stanford* *Jun 2018 - present*

- Founder a trading platform for Chinese student to buy and sell second-hand items
- Wrote the front-end by using Wxml, Wxss and some JS
- Provided service to University of Colorado Boulder, Colorado State University, University of Iowa, Pennsylvania State University. The number of users has achieved 3400 until Nov 2019