JIE WANG

1111 30th street, Boulder, CO | Jie.Wang-1@Colorado.EDU | (720) 755-0929
Actively seeking for a 2021 internship Software Development position

EDCUATION

Master of Science Computer Science
University of Colorado Boulder *Anticipated Graduation Date: Nov. 2021*
Bachelor of Science Computer Science **Major GPA: 3.5**
University of Colorado Boulder *Jan. 2017 – May. 2020*
Summer Stanford Session 2018
Stanford University
Related coursework: Data Structures, Computer Systems, Software Development Tools, Discrete Structures, Algorithms, Human Center Design, Machine Learning, Data System, NLP

ENGINEERING EXPERIENCE

Research Assistant, *NLP Lab, CU Boulder* *Aug. 2019 – Present*
- Built a classifier with **Python** to predict which tweet will be retweeted more by using BERT language model, which achieved **69.4%** accuracy with new **classifier** compared with **66.5%** accuracy in original paper by Prof Chenhao Tan
- Optimized the model by analyzing data set and then creating three different encoding methods and tested performance of three encoding methods by scientific experiment method

Co-Founder, *Wecuner (Trade Tech Company), Stanford University* *Jun. 2018 – Aug. 2018*
- Wrote front-end by **HTML**, **CSS**, and **JavaScript** to design a second-hand trade platform prototype
- Provided service to **3,400 users** in **4 university** until 2020. The turnover for the first month was **$20k.**

ENGINEERING PROJECTS

Personalized food recommendation app, *Start-up, CU Boulder* *Mar. 2020 – Apr. 2020*
- Developed the authorization and connection map by Dart based on **Flutter** for front-end
- Allowed checking the status of user-verify and managed the data by **MySQL**,

Sentiment Analysis Based on BERT, *Independent Study, CU Boulder* *Jan. 2019 – May. 2019*
- Reproduced a LSTM model with **Python** by **Tensorflow** and did unit-test on Juypter Notebook
- Achieved **93%** dev accuracy by replicating sentiment analysis on **BERT**
- Obtained the optimal learning rate and batch size through the experiments

Suicide prediction Based on BERT, *Data Mining (Audited), CU Boulder* *Aug. 2019 – Dec. 2019*
- Orchestrated a classifier based on **BERT** by **Pytorch** with weibo dataset, programed in **Python**
- Analyzed **7k** data set with **SQL** and implemented **97.8%** dev accuracy

Game building on hardware, *Independent Project* *Aug. 2018 – Sep. 2019*
- 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

Graduate Course Assistant, *Department of Computer Science, CU Boulder* *Aug. 2020 – Present*
- Assisted CSCI 3155 Principle programming language for grading

Math Tutor and Learning Assistant, *Department of Mathematics, CU Boulder* *Aug. 2018 – Present*
- Assisted more than **100** college students in calculus, linear algebra homework at Math Academic Research Center. Taught pre-calculus course for **4** semesters, enhancing communication skill and teaching ability

TECHNICAL SKILLS

Languages: Python, Dart, C++, SQL, JavaScript, Scala
Framework & System: Linux, Git, Gatsby, Pytorch, Sql Intergration service, Flutter
Software/Other: Mysql, MSSQL server, Juypter Notebook, Wireless charger patent, Tableau, Adobe Photoshop