

JIE WANG

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Actively seeking for a 2021 internship Software Development position

EDUCATION

Master of Science Computer Science

University of Colorado Boulder

Anticipated Graduation Date: Nov 2021

Bachelor of Science Computer Science

University of Colorado Boulder

Major GPA: 3.5

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%** logical regression accuracy in original paper by Chenhao Tan
- Optimized the model by analyzing data set and then creating three different **tokenization** methods and tested performance of three tokenization 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 Jupyter 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 with 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/C++, SQL, JavaScript, Scala, HTML

Framework & System: Linux, Git, Gatsby, Pytorch, Sql Intergration service, Flutter

Software/Other: Mysql, MSSQL server, Jupyter Notebook, Wireless charger patent, Tableau, Adobe Photoshop