

JIE WANG

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<http://blog.itworkonline.top> | seeking for an intern in 2021

CAREER OBJECTIVE

I'm a first-year master student interested in software development, data analysis, and machine learning (NLP). I'm seeking an internship position that applies the skills above to solve real-world problems.

EDUCATION

Master of Science Computer Science

University of Colorado Boulder

Major GPA: 4.0/4.0

Aug.2020 – May. 2022

Bachelor of Science Computer Science

University of Colorado Boulder

Major GPA: 3.5/4.0

Jan.2017 – May. 2020

Summer Stanford Session 2018

Stanford University

Related coursework: Data Structure, Computer Systems, Software Development Tools, Discrete Structure, Algorithms, Human Center Design, Machine Learning, Data System, Natural language processing

TECHNICAL SKILLS

Languages: Python, Java, Dart, C++, SQL, JavaScript, Scala

Framework & Lib & System: Flask, Linux, Git, Gatsby, Pytorch, ELT system, Sql Intergration service, Flutter

Software/Other: Mysql, MSSQL server, Jupyter Notebook, Pycharm, data extraction and cleaning

Achievement: Wireless charger patent, 2019-2020 Dean List

ENGINEERING EXPERIENCE

Research Assistant, NLP Lab, CU Boulder

Aug. 2019 – Nov. 2020

- Built a classifier with **Python** to predict which tweet will be retweeted more by using BERT language model. It achieved **69.4%** accuracy, which outperformed the state of the art model (**66.5%**)
- 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

Car rental platform, Course work, CU boulder

Aug. 2020 – Dec. 2020

- Developed a car rental system on Web by using **Flask** and **wtForm** which allow users to check in and verify their identity by **sqlalchemy**
- Designed a user-friendly interface with **BootStrap** and a flexible system with **object-oriented design**

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. 2018

- 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

- Taught pre-calculus course for **5** semesters. Assisted more than **300** college students in calculus, linear algebra homework at Math Academic Research Center