JIE WANG

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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.

EDCUATION

Master of Science Computer Science	**Major GPA: 4.0/4.0**
University of Colorado Boulder	*Aug.2020 – May. 2022*
Bachelor of Science Computer Science	**Major GPA: 3.5/4.0**
University of Colorado Boulder	*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 & System: Flask, Linux, Git, Gatsby, Pytorch, ELT system, Sql Intergration service, Flutter
Software/Other: Mysql, MSSQL server, Juypter Notebook, Pycharm, data extraction and cleaning
Achievement: Wireless charger patent, 2019 Dean List, 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 – Present*
- 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 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. 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.