# JIE WANG

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## EDUCATION

**Bachelor of Science Computer Science**                                                                      **GPA: 3.4**
*University of Colorado Boulder*                                        *Anticipated Graduation Date: May 2020*
**Master of Science Computer Science**
*University of Colorado Boulder*                                                     *Expected: Aug 2020 – May 2022*
**Summer Stanford Session 2018**
*Stanford University*
*Related coursework:* Data Structures, Computer Systems, Software Development Tools, Discrete Structures, Algorithms, Introduction to Robotics, Human Center Design, Machine Learning, Data System

## TECHNICAL SKILLS

*Languages:* Python, Dart, C/C++, SQL, JavaScript, Scala, HTML
*Framework & System:* Linux, Remote Server, Git, Pytorch, Flutter, AWS Cloud, Juypter Notebook, Arduino
*Software/Other:* Quality assurance, Data Analyst, cleanup, and validation, Wireless charger patent, Tableau, Adobe Photoshop, Lightroom, Microsoft Office (Word, Excel, PowerPoint)

## 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 **encoding** methods and tested performance of different encoding methods by scientific experiment method

## ENGINEERING PROJECTS

**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 with a dataset from weibo and programed in **Python**
- Analyzed **7k** data set with **SQL** and implemented **97.8%** dev accuracy

**Personalized food recommendation app,** *Start-up, CU Boulder*                *March. 2020 – Present*
- Developed the authorization and connection map by Dart based on **Flutter** for front-end
- Allowed checking the status of user-verify and stored data using **MySql**,

**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

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

**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