

JIE WANG

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<http://blog.itworkonline.top> | seeking for a full time in May 2022

EDUCUATION

Master of Science Computer Science

University of Colorado Boulder

Major GPA: 3.9/4.0

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, Object Oriented Analyst & Design, Algorithms, Human Center Design, Machine Learning, Data System, Natural language processing

TECHNICAL SKILLS

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

Framework & Lib & System: React, Cypress, Flask, Linux, Git, Sql Intergration service, Flutter, PyTorch

Software/Other: Mysql, MSSQL server, Jupyter Notebook, GitKarmen, Pycharm, IntelliJ IDEA

Achievement: [Wireless charger patent](#), Dean List

ENGINEERING EXPERIENCE

Software Engineer Intern, Pure Access Team, Allegion

May. 2021 – Aug. 2021

- Designed reusable automation tests by **Cypress** for the quality assurance web development in production cycle
- Refactored integration test code to avoid code duplication in **JavaScript** on automation test by wrapping functions and commands as a code block. Saved **32%** of lines code in one file and [evaluated](#) the work of code reuse for future engineers

Research Assistant, NLP Lab, CU Boulder

Aug. 2019 – Nov. 2020

- Built a classifier in **Python** to predict which tweet will be retweeted more in BERT language model. It achieved **69.4%** accuracy, which outperformed the state of the art model (**66.5%**)
- Optimized the model based on surveying different embedding methods as an input in the language model

Co-Founder, Wecuner (Trade Tech Company), Stanford University

Jun. 2018 – Aug. 2018

- Built front-end in **HTML**, **CSS**, and **JavaScript** to design a second-hand trade platform prototype
- Monitored the server usage and provided [service](#) to **3,400 users** in **4 universities** until 2020

ENGINEERING PROJECTS

[Car rental platform](#),

keywords: Python, front-end, Object oriented design

Aug. 2020 – Dec. 2020

- Developed a car rental system on Web in **Flask** and **wtForm** to verify users' identity in **Sqlalchemy** database
- Allowed user to book the car and let manager operate the storage by adding, editing, deleting the car

[Food storage management system](#),

keywords: Java, design pattern, Object oriented design

Sep. 2020 – Oct. 2020

- Developed a food storage management in Java with Factory, Decorator, and Observer Pattern. Alarmed and re-filled when no rolls by checking the storage of the food rolls
- Customized the food rolls based on different types of customers which generated randomly

Personalized food recommendation app, Start-up

keywords: Dart, Flutter, Facebook login, MySQL

Mar. 2020 – Apr. 2020

- Developed the Facebook user 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**

Suicide prediction Based on BERT, Research

keywords: Python, Jupyter Notebook, SSH, Machine learning, Language Model

Aug. 2019 – Dec. 2019

- Surveyed the Weibo dataset's sample balancing problem and engineered the dataset before training the model
- Orchestrated a classifier based on BERT by Pytorch with 97.8% accuracy and inspected the result with the similar papers trained by different models

LEADERSHIP EXPERIENCE

Course Facilitator, Coursera Data Science Master Program, CU Boulder

Jan. 2021 – Present

- Facilitated in Tree and Graphs course and assisted graduate student with programming questions

Math Tutor and Learning Assistant, Department of Mathematics, CU Boulder

Aug. 2018 – Dec. 2020

- Taught pre-calculus course for **5** semesters. Assisted more than **300** college students for calculus