

JIE WANG

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<http://blog.itworkonline.top>

EDUCATION

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, Swift, C#, SQL, JavaScript, Scala

Framework & Lib & System: Cypress, Flask, RabbitMQ, Linux, Git, PyTorch, GCP, Azure DevOps

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

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

ENGINEERING EXPERIENCE

Software Engineer Full-time, Allegion, Boulder, CO

Jun. 2022 – Present

- Enhanced internal console app to save large amount of time when doing API call through different commands
- Designed the Specflow test to enhance the quality of the functionality of Cloud service

Software Engineer Intern, Allegion, Boulder, CO

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 and [evaluated](#) the work of code reuse for future engineers

Research Assistant, NLP Lab, Boulder, CO

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

ENGINEERING PROJECTS

[Ski rental platform](#),

keywords: Flask, Web app, Full-stack, RabbitMQ, Data analyzer, Data collector

Jan. 2022 – Apr. 2022

- Developed a Ski rental system on Web in **Flask** to allow user to book the car and manager to operate and analyze the storage by adding, editing, deleting the ski in different user modes
- Enhanced the code readability, reusability, scalability with design patterns during the development cycle
- Built the producer and customer messaging model to communicate among data collector (external **API**), analyzer, and Flask App with **RabbitMQ**

[Food storage management system](#),

keywords: Java, design pattern, Object oriented design

Sep. 2020 – Oct. 2020

- Completed a food storage management system in **Java** with Design Patterns. Alarmed and re-filled when no rolls by checking the storage of the food rolls.
- Applied the oriented design thought to increase the extensibility of the project and reduced redundant codes.

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 – Aug. 2022

- 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. Coached more than **300** college students for calculus