JIE WANG

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EDCUATION

Master of Science Computer Science **Major GPA: 3.9/4.0**
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, 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, GitKarken, Pycharm, Intellij IDEA
Achievement: Wireless charger patent, Dean List

ENGINEERING EXPERIENCE

Software Engineer Intern, *Allegion, Boulder, CO* *June. 2022 – Present*
- Enhanced internal console app to save large mount 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 in one file 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