JINZE WANG

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science — Expected May 2024
Candidate for Master of Science in Engineering, Data Science — GPA:3.95/4.0

ShanghaiTech University, School of Information Science and Technology — July 2022
Bachelor of Engineering in Computer Science and Technology (Minor: Finance) — GPA:3.7/4.0(top 10%)

EXPERIENCE

Software Engineer Intern — Feb 2022 - July 2022
Orka — *Shanghai, China*

- Developed and maintained company website backend using **Django REST framework** and **React**.
- Constructed **RESTful APIs** with **Django/PostgreSQL** for user authentication, data management, and third-party platform connections management.
- Built an internal reimbursement approval platform using **Python** and **third-party APIs**.
- Tested APIs in the website using **Postman**, revised those codes and used **Git** to for version control.

Software Engineer Intern — Aug 2021 - Nov 2021
Deloitte — *Shanghai, China*

- Participated in a project of constructing an automatic inquiry system for enterprise risk assessment, responsible for information gathering, data wrangling and system developing.
- Developed a system to automatically scrape data from websites using **Selenium** and **BeautifulSoup**, clean them using **pandas**, store them to **MySQL** database and used **python-docx** to generate reports based on these data.

PROJECTS

Soccer Fun Facts Web App

- Built a web application with account management and search functions. Utilized **React** for frontend, **Node.js** for backend.
- Integrated the tests and the **Eslint** static code analysis on Github using **Travis CI/CD**.
- Using **MySQL** database to store data and apply **query optimization** to the **SQL** queries in **AWS Athena**.

Food Classification

- Utilized **AWS RDS** for **SQL** and **Apache Spark** to process and manipulate the dataset, resulting in 70% reduction in processing time.
- Developed a **CNN** food classification model using **Pytorch**, achieving a precision rate of 89%.

Multi-Label Feature Interaction Learning

- Developed a high-order, non-linear **multi-label learning** model with structured sparsity, in order to choose the proper feature interaction terms, and improve the generalization ability.
- Decomposed the feature interaction tensor to avoid overfitting and impose the **L21-norm regularization** to promote the structured sparsity during feature learning.
- Conducted experiments on real datasets to demonstrate the effectiveness of the proposed method.

SKILLS

Programming Languages — Python, SQL, MATLAB, C/C++, Java, LaTeX, HTML/CSS
Tools — Git, MySQL, Apache Spark, Pandas, AWS, PyTorch, Django, React