

Hongjie (Jessie) Wang

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SUMMARY: **Software Engineer** with 1.5 years of experience in full-stack development and LLM

EDUCATION

Tufts University

Master of Science in Data Science, focus on Computer Science

Medford, MA

Feb. 2021 – Feb. 2023

Huazhong University of Science and Technology(HUST)

Bachelor of Engineering in Eletronic Information Engineering

Wuhan, China

Sept. 2016 – Jun. 2020

EXPERIENCE

Sr. Software Engineer - Full-stack

May. 2023 – Present

Tufts University

Boston, MA

- Led the design and implementation of a **containerized** web application on **AWS**, utilizing **Docker** to streamline deployment and scalability, serving thousands of researchers and universities.
- Optimized **big data transfer** and order processing workflows, troubleshooting **TCP/IP networking in clustered environments** to enhance system reliability and user experience, leading to increased adoption
- Designed and implemented a **high-performance data storage solution** managing **2000+ TB** of research data, leveraging **AWS S3** for efficient transfer, upload, and retrieval, significantly improving data availability
- Developed **automation scripts on Linux servers** for **data lifecycle management**, including **backup strategies, tiered storage migration, and performance optimization**, reducing operational overhead

Software Engineer

April. 2023 – Sept. 2024

Textbook Exchange Network Inc (Startup)

Boston, MA

- See our product: <https://www.textbookexchangenetwork.com/>
- Developed a **web app** using **JavaScript, React, HTML, CSS** that offering a self-service, virtual textbook exchange experience that facilitated \$504809 worth of textbook across 9 universities and 800+ users grow annually
- Led a team of 7 people, used **Trello** for project management, and established **version control** via **Git**
- Designed database model storing items, buyers, and sellers information, and developed shopping cart feature with **REST API**; Built data pipeline for the data analysis team

Software Engineer Intern

Aug. 2023 – Sept. 2023

DiDi (China's Uber)

Beijing, China

- Developed **mobile features** expanding ride options for **590M users**, boosting profits by 3.5%
- Built and launched 3 new flows in GO, collaborated with a team of 6 colleagues, enabling flexible pricing & vehicle options—delivered 3 weeks early
- Conducted **stress testing** to ensure app stability during peak ride-hailing periods
- Migrated the codebase from PHP to Go language, improved future maintenance efficiency by **30%**

Data Engineer Intern

Jun. 2021 – Sept. 2021

Baidu (China's Google)

Beijing, China

- Worked on Inflow, a digital workspace platform that servers **30+** large tech companies and millions of users
- Developed **relational databases**, data pipelines, data models and optimized data infrastructure to support the company's data-driven decision-making processes
- Extracted log data from **ETL** data warehouse independently wrote 3000+ lines Scala code to build 30+ data pipelines utilizing **Hadoop, Spark** and **SQL** that serves millions of daily-active users
- Optimized **275** data pipelines by modifying the logic, reduce the daily running time by 18%
- Applied **machine learning**, information retrieval, and natural language processing techniques to improve data processing and analytics efficiency
- Developed a data dashboard tool, build auto event tracking, reduce 4 hrs PRD time based on Hive

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, SQL, HTML, CSS, PHP, GO

Tools and Frameworks: Linux, Git, AWS, CI/CD, React, React Native, Spring Boot, ETL, Spark, Hadoop, Hive

Certification and Classes: AWS Cloud Practitioner, NVIDIA: **Building Transformer-Based Natural Language Processing Applications**, NVIDIA: **Fundamentals of Deep Learning**