

Muqi Zhang

muqizhan@usc.edu | Los Angeles, CA

WORK EXPERIENCE

Software Engineer (Intern) at Luckin Coffee

2023-10 – 2023-12

- Built a backend service using LLMs and APIs to help screen a huge batch of resumes.
- Developed barista-style prompts to improve model accuracy.
- Conducted pilot tests on thousands of resumes from various cities.
- Collaborated with different teams to integrate the resume screener into the hiring process.

Research Assistant / Human Resources at Chinese Academy of Meteorological Sciences

2021-08 – 2023-07

- Built a Python tool for analyzing staff attendance.
- Coordinated recruitment, visiting scholars, and performance appraisals.
- Facilitated cross-team communication and collaboration.

EDUCATION

University of Southern California - Master of Science in Computer Science

2024-01 – 2026-05

Peking University - Master of Science in Physical Oceanography

2018-09 – 2021-07

Beijing University of Technology - Bachelor of Science in Applied Physics

2014-09 – 2018-07

SKILLS

Languages

C++ C Python Java Matlab R JavaScript SQL HTML/CSS

Tools/Frameworks

AWS LangChain Azure Hugging Face TensorFlow Pytorch GitHub Jupyter Notebook
Matplotlib sklearn shelve Pandas Numpy pickle Xcode Linux Latex NoSQL MySQL

PROJECTS

Intelligent Resume Generation System with RAG and LLMs

2025-01 – 2025-04

Developed a tool for generating customized resumes using LLMs.

- Created a Streamlit web app for instant resume generation.
- Developed a pipeline to convert resume PDFs to structured JSON.
- Implemented RAG with ChromaDB to improve LLM content generation.

Click-Through Rate Prediction for Ad Recommendations Enhanced by User Behavior History

2025-03 – 2025-04

Built a CTR prediction model using deep learning techniques.

- Integrated DIN, FM, and DNN for CTR prediction.
- Analyzed user profiles, ad information, and interaction history.
- Achieved a final AUC of 78% on the test set.

Statistical Downscaled Climate Projection Dataset for China Using Artificial Neural Networks

2018-12 – 2021-04

Generated a high-resolution climate change dataset for China.

- Reduced temperature bias by 80% and precipitation bias by 90%.
- Published as first author in a scientific journal.