MUQI ZHANG

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EDUCATION

University of Southern California — Los Angeles, United States
Master of Science in Computer Science (GPA: 3.85/4.0) — Jan 2024 - May 2026

Peking University — Beijing, China
Master of Science in Physical Oceanography (GPA: 3.35/4.0) — Sep 2018 - July 2021

Beijing University of Technology — Beijing, China
Bachelor of Science in Applied Physics (GPA: 3.89/4.0) — Sep 2014 - July 2018

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

WORK EXPERIENCE

Luckin Coffee | Beijing, China
Software engineer (Intern) — Oct 2023 – Dec 2023

- Built a backend service using LLMs and APIs to help screen a huge batch of resumes. This helped the HR team deal with peak hiring times more easily
- To make the model more fair and accurate, I came up with a set of barista-style prompts that brought the accuracy. Helped get everything running smoothly in the cloud using Azure
- Ran pilot tests on thousands of resumes from cities like Guangzhou, Suzhou, and Nanjing, making sure the results made sense across all branches before rolling out the system nationwide
- Worked with people from different teams to make sure the resume screener fit into the company's hiring process naturally. This helped speed up how fast we could spot strong candidates

Chinese Academy of Meteorological Sciences | Beijing, China
Research Assistant / Human Resources — Aug 2021 – July 2023

- Built a tool in Python that helped analyze staff attendance-every season. Using charts and automatic tracking, it helped ensure policies were being followed
- Coordinated with multiple departments to manage recruitment, visiting scholars, and performance appraisals, while facilitating effective cross-team communication and collaboration to balance multiple responsibilities

PROJECTS

Intelligent Resume Generation System with RAG and LLMs
GRIDS Group, University of Southern California — Jan 2025 – Apr 2025

- Made a tool that takes raw resume uploads and connects them to an LLM-based system that generates customized resumes. The whole thing runs as a Streamlit web app where users can get their polished resume instantly
- Created a pipeline that turns resume PDFs into structured JSON using Python tools like PDFPlumber and Pydantic. Made it much easier to do accurate LLM-based resume generation later
- Used a technique called RAG (Retrieval-Augmented Generation) with ChromaDB. Helped the LLMs write better content by pulling relevant examples, cutting down on made-up stuff and improving keyword relevance

Click-Through Rate Prediction for Ad Recommendations Enhanced by User Behavior History
Deep Learning, University of Southern California — Mar 2025 – Apr 2025

- Built a CTR prediction model by integrating Deep Interest Network (DIN), Factorization Machine (FM), and Deep Neural Network (DNN). Combined sequence, dense, and sparse features to capture dynamic user interests and high-order feature interactions, enhancing model expressiveness
- Utilized the public dataset from the 2022 DIGIX Global AI Challenge to systematically analyze the impact of user profiles, ad information, and interaction history on click-through rates. Conducted ablation studies to validate the contributions of FM and DIN modules, achieving a final AUC of 78% on the test set, outperforming baseline models

Statistical Downscaled Climate Projection Dataset for China Using Artificial Neural Networks
Climate Group, Peking University — Dec 2018 – Apr 2021

- Generated a high temporal-spatial resolution climate change dataset for China using Scikit-Learn's MLPRegressor in Python, leveraging pandas and NumPy for efficient data processing; reduced temperature bias by 80% and precipitation bias by 90%; served as first author on the resulting published paper

PUBLICATIONS

Statistical Downscaled Climate Projection Dataset for China Using Artificial Neural Network: In *Acta Scientiarum Naturalium Universitatis Pekinensis,* 58(2), 221-233. DOI: 10.13209/j.0479-8023.2022.015. 2022. **Zhang M.**, Wen X., Bao Y., Qu Y.

Develop an Objective Post-processing System with Artificial Neural Network to Improve Numerical Weather Prediction for the Olympic Winter Beijing 2022: In *Acta Scientiarum Naturalium Universitatis Pekinensis,* 58(2), 210-220. DOI: 10.13209/j.0479-8023.2022.011. 2021. Qu Y., Wen X. **Zhang M.**, Liu Z.