

## AI Agent Development/Test/Evaluation, ML/DL Modeling, Full-Stack Engineering

2+ years work experience (US/International); 4+ years research and programming experience.

### EDUCATION

<b>PhD Student</b>	AI for Geosciences, University of Texas at Austin	2024 – expected May 2029
	GPA 3.9/4.0, Teaching Assistant for 260+ students, instructor rating ~ 4.5/5	
<b>B.S. in Geosciences (Honors Class)</b>	University of Science and Technology of China	2020 – 2024
	Nominee of the <b>Highest Honor</b> for USTC undergrads (one of the two ESS School nominees)	
	Founded one of the largest student clubs, grew from 0 to 1,200+ members <a href="#">[News]</a>	

### WORK EXPERIENCE

<b>AI Intern, AI Agent Knowledge Base Evaluation</b>	PineAI (Singapore)   Remote   Jul. 2025 – Aug. 2025
• Built an evaluation system from scratch for multi-dimensional assessment of PineAI Agent's knowledge base.	
• Developed a data sanitization module removing 2,000+ PII entries and noise from 1,000+ call sessions.	
• Extracted 3,000+ Q&A pairs (knowledge/method/strategy) from call sessions to form the evaluation dataset.	
• Designed a 5-dimensional evaluation engine using LLM-as-a-judge method with concurrent processing.	
<b>Full-Stack Intern, LLM Text Processing System</b>	ZaiwenAI   Beijing, China   Jun. 2025 – Jul. 2025
• Acted as multiple roles in the startup, from design to deployment.   <a href="#">[Code]</a> (non-company business) <a href="#">[Demo]</a>	
• Developed 3-module MVP: LLM-footprint detection, removal, and plagiarism checking for researchers.	
• Built a RESTful backend with FastAPI and an asynchronous task queue with Celery + Redis.	
• Created a Vue.js frontend with 9-format document upload, SSE-based real-time LLM response streaming.	
<b>Research Assistant, ML Model Development</b>	UT-Austin   Austin, TX   Aug. 2025 – Present
<b>Project Admin, High Performance Computing Allocation</b>	NSF NCAR   Remote   Aug. 2025 – Present
• Integrated machine learning parameter calibration for a SOTA physics-based land surface model (Noah-MP).	
• Designed a Scikit-learn framework to improve the efficiency of model parameter calibration.	
• Applied for and funded by the NSF NCAR's 1k GPU hrs, 22k CPU hrs high performance computing allocation.	
<b>Full-Stack Developer, UT01 Navigation Page</b>	Independent   Hybrid   Jun. 2025 – Present
• Tech Stack: Jekyll, JavaScript/HTML/CSS   Impact: 10,700+ visits   <a href="#">[Code]</a> <a href="#">[Website]</a>	
• Created a unified resource platform for UT Austin's fragmented campus services based on user research.	
• Implemented SEO strategies to improve visibility; optimized frontend for cross-device compatibility.	
<b>Visiting Scholar, High Altitude Observatory</b>	NSF NCAR   Boulder, CO   Jul. 2023 – Dec. 2023
• Simulated global atmospheric wave propagation, detecting 2 distinct wave modes from Hunga-Tonga eruption.	
• Integrated simulation/observation via wavelet analysis, advancing understanding of extreme volcanic events.	
• First-authored presentation at a NASA Science Workshop and AGU Meeting.   <a href="#">[Code]</a> <a href="#">[Abstract]</a>	

### PUBLICATIONS

1. **Wu, K.**, Yi, W.\*, Xue, X.\*, Reid, I., & Lu, M. (2024). Diurnal and seasonal variations of meteor speed and arrival angle observed by Mengcheng meteor radar. *JGR: Space Physics*. [\[Paper\]](#) [\[Data\]](#)
2. **Wu, K.\***, Xu, X., Jiang, J., & Shen, A. (2024). A Summary Report on the Space Physics Practical Education in 2022. *Rev Geophys and Planetary Phys*. [\[Paper\]](#) [\[News\]](#)

### SKILLS

- **Programming:** Python, FastAPI, Node.js, PostgreSQL, Redis, Docker, AWS/GCP, JavaScript, React, MATLAB



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