

Seeking internships in AI Agent Development/Test/Evaluation, ML/DL/DS, Full-Stack Engineering
2+ years work experience (US/International); 4+ years research/programming experience; 280+ stars on GitHub.

EDUCATION

Ph.D. Student in AI for Geosciences	University of Texas at Austin	2024 – Expected: May 2029
GPA: 3.9/4.0 TA for 1,000+ students (Instructor rating: 4.5/5.0) Reviewer for <i>Planetary and Space Sciences</i> (Elsevier, Scopus Q2)		
B.S. in Geosciences (Honors Class)	University of Science and Technology of China	2020 – 2024
Nominated for the Highest Honor for USTC undergraduates (one of the two ESS School nominees) Founded one of the largest student clubs, grew from 0 to 1,300+ members. [News]		

WORK EXPERIENCE

AI Intern, AI Agent Knowledge Base Evaluation	PineAI (Singapore) Remote Jul. 2025 – Aug. 2025
• Implemented multi-dimensional evaluation system from scratch for PineAgent's RAG knowledge base. • Developed 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. • Deployed concurrent LLM-as-judge + rule-based engine, measuring P/R/F1 to enable RL optimization.	
Full-Stack Intern, LLM Text Processing System	ZaiwenAI Beijing, China Jun. 2025 – Jul. 2025
• Fulfilled multiple roles in the startup, from design to deployment. [Code] (non-company business) [Demo] • 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.	
Research Assistant, ML Model Development	UT-Austin Austin, TX Aug. 2025 – Present
Project Admin, High Performance Computing Allocation	NSF NCAR Remote Aug. 2025 – Present
• Integrated machine learning parameter calibration for a SOTA physics-based land surface model (Noah-MP). • Enhanced efficiency of traditional Monte Carlo parameter calibration with a scikit-learn framework. • Proposed and secured NSF NCAR's 1k GPU + 22k CPU hours high performance computing allocation.	
Visiting Scholar, High Altitude Observatory	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. [Code] [Abstract]	
Full-Stack Developer, UT01 Navigation Page	Independent Hybrid Jun. 2025 – Present
• Consolidated 80+ campus resources across 11 categories based on student navigation patterns. [Code] [Website] • Drove 10,800+ visits through SEO techniques; optimized HTML/SCSS frontend for cross-device compatibility.	

PUBLICATIONS

1. **Wu, K.**, He, C., & Yang, Z.-L.* (in preparation). Noah-Agent: A Multi-Expert AI Agent Framework for Automated Parameterization and Validation over 100K-Line Scientific Codebases.
2. **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] [Code] [Data]
3. **Wu, K.***, Xu, X., Jiang, J., & Shen, A. (2024). A Summary Report on the Space Physics Practical Education in 2022. *Reviews of Geophysics and Planetary Physics*. [Paper] [Code] [News]

SKILLS

- **Languages & Frameworks:** Python, FastAPI, JavaScript, React, SQL, MATLAB
- **Infrastructure & Tools:** Docker, HPC, AWS/GCP, Redis, Git



Resume PDF