

## 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; 290+ stars on GitHub.

### EDUCATION

**Ph.D. Student in AI for Geosciences**      **University of Texas at Austin**      2024 – Expected: May 2029  
TA for 1,000+ students (Rating: 4.5/5.0) | GPA: 3.7/4.0  
Invited Reviewer for *Planetary and Space Sciences* (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/Multi-agent Development**      **UT-Austin** | Austin, TX | Aug. 2025 – Jan. 2026

**Project Admin, High-Performance Computing Allocation**      **NSF NCAR** | Remote | Aug. 2025 – Present

- Proposed and secured NSF NCAR's 1k GPU + 22k CPU hours high-performance computing allocation.
- Integrating machine learning parameter calibration for a SOTA physics-based land surface model (Noah-MP).
- Enhancing efficiency of traditional Monte Carlo parameter calibration with a scikit-learn framework.
- Developing a multi-expert AI agent system for automated parameterization for physics-based climate models.

**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

- **Wu, K.**, He, C., & Yang, Z.-L.\* (in preparation). Noah-Agent: A Multi-Expert AI Agent Framework for Automated Parameterization and Validation of Large-Scale Fortran Climate Models [\[Preprint\]](#)
- **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*. [\[Paper\]](#) [\[Code\]](#) [\[Data\]](#)
- **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, TypeScript, React, SQL, MATLAB
- **Infrastructure & Tools:** Docker, HPC, AWS/GCP, Redis, Git

