

Ryan Zheng

925-201-9539 | ryanzheng@nmokey.com | [linkedin.com/in/nmokey](https://www.linkedin.com/in/nmokey) | github.com/nmokey

EDUCATION

University of California, Los Angeles

B.S. in Physics

Los Angeles, CA

Sep. 2024 – June 2028

EXPERIENCE

Generative AI Intern

Scale AI

January 2025 – Present

San Francisco, CA (Remote)

- Contribute to training and evals for SOTA reasoning and agentic models across 5+ clients and 100+ tasks, ranging from abstract visual reasoning, to deep research, to next-gen SWE agents solving real world GitHub issues.
- Execute rigorous quality assurance reviews for critical datasets powering state-of-the-art model training, evaluating contributor and intern deliverables against strict customer specifications to ensure data integrity and compliance standards.
- Design robust problems, construct futureproof testing environments, and write comprehensive rubrics for industry standard AI benchmarks such as the Aider LLM Leaderboards.

Research Assistant

University of Texas at Austin

June 2022 – July 2022

Austin, TX

- Collaborated on a research study of the conterminous United States' travel patterns during the COVID-19 pandemic based on origin-destination data.
- Created lightweight and robust data aggregation tool using Java to process and aggregate large datasets of national travel data.
- Coauthored research paper accepted to *COTA International Conference of Transportation Professionals 2024 Conference Proceeding*.

PROJECTS

R1 Reasoning | ACM AI

March 2025 - June 2025

- Implemented reinforcement learning from human feedback (RLHF) system using Group Relative Policy Optimization (GRPO) to fine-tune Qwen2.5-7B-Instruct model for mathematical reasoning tasks. Improved out-of-the-box model accuracy on test data by 17 percentage points.
- Identified and debugged issues with repetition rewards, correctness metric, and dataset parameters. Implemented custom correctness checking via regex pattern matching and repetition detection using n-gram analysis.
- Optimized memory usage through gradient checkpointing, 8-bit optimizers, and automatic GPU memory management for multi-GPU training.

PUBLICATIONS

Chen, Y., Jiao, J., & Zheng, R. (2024). Exploring changes in trip generation and impacts of built environment between regular and essential trips: A study based on the contiguous United States. *Proceedings of the CICTP 2024* (pp. 3317–3326). Presented at the CICTP 2024. <https://doi.org/10.1061/9780784485484.314>

CLUBS AND ORGANIZATIONS

Association for Computing Machinery AI

Project Member

Sigma Pi Sigma Honor Society

Member

Society of Physics Students

Member

AWARDS

ICPC Break the Binary Third Place

2024

USA Physics Olympiad Qualifier

2023

TECHNICAL SKILLS

Languages: Java, Python, Swift, C++, SQL, HTML/CSS, R

Frameworks: PyTorch, Hugging Face, React, Jekyll

Developer Tools: Git, VS Code, XCode, Cursor, Jupyter, Godot