

MENG CHEN

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EDUCATION

University of North Carolina at Chapel Hill

Aug 2026 - Expected 2028

M.S. in Computer Science

Shanghai Jiao Tong University

Sep 2021 - Jun 2025

B.S. in Medical Laboratory Technology

Coursework: Data Structures in C++, Linear Algebra (A), Discrete Mathematics (A), Computer Architecture (in progress), Calculus, Python Programming, C Programming, Biostatistics, Bioinformatics (A).

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, C/C++, R, Bash

Web & Data: React, Next.js, Node.js, PostgreSQL, Prisma, Zod, LLM APIs

Tools: Git, Linux, Docker, uv, Harbor, Snakemake

PROJECTS

Serenity Intelligence / Alphaline | Independent Developer

May 2026 - Present

AI-powered information and subscription platform

- Built and maintained a full-stack AI information platform serving **100+ paying customers to date**; ingested **6,800+ posts** and stored structured analyses for **6,700+ posts**.
- Implemented X streaming ingestion with heartbeat monitoring and backoff reconnection, scheduled polling, and content deduplication backed by PostgreSQL and Prisma.
- Integrated multiple LLM providers with first-success response selection, Zod schema validation, JSON repair, retries, and original-content fallback when AI analysis fails.
- Developed channel-level access controls, subscription-expiry management, notification workflows, and a React dashboard for stock mentions and related content.

RESEARCH EXPERIENCE

University of North Carolina at Chapel Hill | Advisor: Huaxiu Yao

RSI-Exam: Self-Improving AI Agent Benchmarks

Aug 2026 - Present

- Contribute to scientific ML benchmark design, defining quantitative objectives, agent optimization spaces, and held-out evaluation protocols; investigate data leakage and reproducibility.
- Develop and evaluate an enhancer-gene prediction task using CRISPR labels and genomic features, with chromosome-based splits and AUPRC; analyze a **27-node** agent experimentation trajectory.
- Run a Python-based multi-agent review workflow across approximately **30 iterations**, debugging structured-output parsing, persistent state, and iteration continuation.

LLM Agent Evaluation & Harness Optimization

Aug 2026 - Present

- Configure Harbor-based environments on shared Linux servers and run benchmark and harness-search workflows, preserving evaluation jobs, candidate artifacts, and provenance.
- Debug Harbor/LiteLLM integration with an OpenAI-compatible gateway, resolving mismatches between provider-routing identifiers and API model names to validate experiment configurations.

SELECTED PUBLICATION & HONOR

Co-author: *AutoResearchClaw: Self-Reinforcing Autonomous Research with Human-AI Collaboration*. arXiv:2605.20025, 2026.

"Bo Le" Undergraduate Research Funding, SJTU (2024) - one of 30 recipients; RMB 100,000 grant.