Tao Li

New York, NY | 434-326-8981 | garrettao2004@gmail.com | github.com/LXTTT0323 | tao-li-personal-site.com

Education

University of Virginia *Sep 2022 – May 2026 | Charlottesville, VA*
Bachelor of Arts in Computer Science

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Systems, Machine Learning

Professional Experience

AI Engineer Intern – PM Accelerator (Vinely AI) *May 2025 – Jul 2025 | Charlottesville, VA*

- Built an AI pairing MVP on **LangChain + Google Gemini** behind RESTful APIs that process numeric, text, and image inputs and support 200+ concurrent user sessions.
- Shipped **prompt validation and fallback pipelines** with automated tests so failed model calls degrade gracefully; containerized services with **Docker**.
- Cut average response latency by **35%** with backend caching; added structured logging and metrics dashboards.
- Ranked **Top 2** among bootcamp projects and advanced to funding.

AI Engineer Intern – Reality AI Lab (NeuralNet Navigators) *May 2024 – Aug 2024 | New York, NY*

- Raised LLM output accuracy from **80% to 93%** by building feedback loops into generation, persisting results in **PostgreSQL** for auditing and reproducibility.
- Built a multi-role **AI educator assistant** (FastAPI backend, Streamlit UI, role-based access control) that generates worksheets and quizzes for teachers.
- Kept LangChain-backed APIs stable under **1k+ concurrent requests** in load testing by adding input validation, retry logic, and logging.

Projects

Co-Founder & Lead Engineer – Corda AI *Oct 2026 – Present | New York, NY*

- Built an **AI agent** that coordinates investor meetings for capital-markets conferences, replacing email-and-spreadsheet scheduling; started at the MONEY TALKS 2 AI x Finance hackathon.
- Built **LLM extraction** that turns investor emails into structured availability windows: JSON output validated with **Zod**, fabricated evidence rejected, and unsupported phrasing routed to review.
- Designed **human-in-the-loop** control so AI proposes and bankers approve; a **deterministic fallback parser** keeps the system usable without a model key, and provider errors leave ingestion retryable.
- Shipped in **Next.js/TypeScript + PostgreSQL/Prisma** with 23 data models and 6 test suites.

Full-Stack Developer – Froodie (froodie.app) *Nov 2026 – Present | New York, NY*

- Launched a live map of free food in NYC fed by a **two-lane data pipeline**: deterministic crawlers over **20+ sources** run daily, then a scheduled **LLM agent** verifies listings and fills gaps for the next 30 days.
- Each crawl scans **3,800+ raw listings** in about a minute and keeps the roughly 300 that offer free food, deduplicated across sources with URL-normalized upserts.
- Built on **Supabase (Postgres, RLS, Edge Functions, pg_cron)** with a canvas/d3 front end; covered with Playwright checks and row-level security tests.

Founder & Developer – UVA Marketplace (uvamarketplace.com) *Feb 2026 – Present | Charlottesville, VA*

- Integrated **Gemini 2.5 Pro** for multimodal (image + text) item parsing at 95%+ batch accuracy; Canvas compression cut image storage by **70%**.
- Built an AI media pipeline with **Gemini 2.5 Flash** and **Perplexity Sonar** and a usage-based quota system on Edge Functions; enforced Row-Level Security across 12+ tables.
- Architected the marketplace on **React 18 + Supabase**; it draws about **1,400 visitors a week**.

Research

Student Researcher – UVA Link Lab *Jan 2025 – Aug 2025 | Charlottesville, VA*

- Collected simulation data and evaluated **reinforcement learning** driving models; visualized vehicle behaviors to assess environment-sensitive performance.
- Built safety-metric monitoring scripts and tuned vehicle parameters to reduce boundary collisions in simulation-trained driving policies.

Skills

AI/ML: LLM APIs (OpenAI, Gemini), LangChain, AI agents, prompt engineering, structured output, multimodal
Languages: Python, TypeScript/JavaScript, Java, C++, SQL
Backend & Infra: FastAPI, Next.js, React, PostgreSQL, Prisma, Supabase, Redis, AWS, Docker, GitHub Actions