

# YINCHENG ZHOU

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## EDUCATION

### University of Pennsylvania

September 2025 - Present

*Vagelos Integrated Program in Energy Research (VIPER)*

*Expected Graduation: May 2029*

- Dual Degree: B.S.E. in Computer & Information Science (AI Concentration) | B.A. in Physics & Astronomy
- Relevant Coursework: CIS 5450 Big Data Analysis, CIS 2400 Computer System, CIS 1210 Data Structure & Algorithm
- GPA: 4.0 / 4.0

## EXPERIENCE

### Franklink, Inc. (*franklink.ai*)

October 2025 - Present

*Founding Software Engineer*

*Philadelphia, PA*

- Built an iMessage-based networking assistant end-to-end that helped the team secure \$200K+ in funding.
- Implemented planner-to-worker multi-agent routing with retrieval + persisted user state using LangGraph; improved request success rate to 92% on internal evaluation suite.
- Designed permissioned tool execution for DB/email/calendar actions to enable safe personalized matching.
- Engineered a Kafka-backed event pipeline for LLM-heavy messaging with at-least-once delivery, idempotency keys, and retry topics (backoff) + DLQ; supported 1,000+ users and 50+ concurrent sessions while keeping p95 end-to-end latency within 30% of single-session baseline.
- Containerize services and design test/deploy workflows; ship on AWS ECS.

### Kaixin Technology Co.,Ltd.

December 2025 - January 2026

*Software Engineering Intern*

*Nanjing, China*

- Engineered an NL2SQL service with SQL-first RAG with controlled execution (read-only, allowlisted tables); exposed FastAPI endpoints that stream SQL, reasoning, and chart-ready results into a production fintech terminal.
- Developed a data-asset pricing workflow using Analytic Hierarchy Process (AHP) + human-in-the-loop review, reducing analysis time by 30% and improving re-run consistency by 50%.

## PROJECTS

### AlphaOne

October 2025 - December 2025

*Tech Stack: React, Vite, FastAPI, SQLAlchemy, PostgreSQL, spaCy, FinBERT*

- Built a full-stack ticker sentiment dashboard with trend charts, ticker search, and evidence drilldown.
- Implemented a reproducible, on-demand Reddit to Postgres pipeline with rate-limit handling, deduped upserts, and schema/indexing for fast time-series queries.
- Added NLP enrichment (spaCy topic/entity tagging + FinBERT sentiment inference) and exposed chart-ready aggregation endpoints for the UI.

## ACHIEVEMENTS

Team China, Finalist, International Science and Engineering Fair (ISEF)

National Second Prize, China Physics Olympiad (CPhO)

Champion, Start-up in a Weekend Hackathon, Photon Hybrid Intelligence Track

## SKILLS

### Languages

C++, Java, Python, JavaScript, OCaml, SQL

### Frameworks

LangGraph, Google ADK, Kafka, React, Node.js, FastAPI

### Databases

MySQL, PostgreSQL, Pandas, Polars

### Cloud

AWS, Docker