

Xuzhou (Colar) Wang

xuzhou.wang.upenn@gmail.com · Philadelphia, PA · linkedin.com/in/xuzhou-wang

EDUCATION

University of Pennsylvania

Philadelphia, PA · Aug 2025 – Aug 2027

Master of Science in Systems Engineering

- Coursework: Applied ML, Data Analysis for Marketing Decisions, Engineering Entrepreneurship, Learning in Robotics

University of Nottingham

Nottingham, UK · Sep 2022 – Jun 2025

Bachelor of Science (Hons) in Financial Mathematics

- Award: International Orientation Scholarship (Top 5%)
- Coursework: Scientific Computation, Statistical Inference, Stochastic Models, Risk Management, Financial Economics

EXPERIENCE

TikTok

San Jose, CA · May 2026 – Aug. 2026

Product Operations Intern — Platform Responsibility TeenX(LLM Eval)

- **High Risk and Regulated Activities LLM Optimization:** Surpassed the offline model's baseline in severity-ranking recall **by 31%** and scaled it to **10.2%** recall on live traffic in the minor-safety area, protecting video-view impact. Drove the gain through **prompt engineering and RAG grounding** on a self-built local agentic loop of rapid pairwise testing, fast result visualization, and fixed per-run attribution; synced findings as requirements to the algorithm and online-model teams.
- **High Risk and Regulated Activities Data Flywheel:** Spearheaded with the algorithm and product teams an 8-stage closed loop that mines missed-recall cases into fresh eval signal, regenerates fixes back to renew the dataset, dispatches rule-refinement signal to the policy team, and isolates model-unsolvable cases to the algorithm team, accelerating the iteration cycle by **100%** and covering the **72.6%** of live-traffic cases with a high-quality, diverse dataset.
- **Systematic Recall Attribution Framework:** Unblocked a stalled project by reframing its recall root-cause attribution from a single-metric assumption into a rigorous multivariate framework, substantiating that **23%** of the dataset labelled as recall misses were not model or retrieval failures but a structural ranking-algorithm gap, where the model correctly flagged the unsafe content while the ranking stage suppressed below the intervention threshold.
- **0-to-1 Multimodal Agentic Workflow:** Formulated on the company platform a multimodal agentic workflow running prompt experiments in parallel **three times faster** than the algo team's tooling and with superior output stability. Broadened the standard three input types to four, raising input coverage by **33%** and integrating a trigger condition, with a **dual-filter design** mitigating hallucination risk.

CHINA GALAXY SECURITIES CO., LTD

Shanghai, China · Jul. 2024 – Sep. 2024

Quantitative Research Intern

- **Hybrid Deep-Learning Return-Forecasting Ensemble:** Generated a **33.7%** simulated backtest return versus **5.2%** for the S&P 500 over the same Jul–Sep 2024 window; co-developed with the quant research team an LSTM and XGBoost ensemble on 20 years of market data, driving pipeline from exploratory analysis through backtesting and authoring the research report.

PROJECT

KitchenSurvivor(Live ios app)

Philadelphia, PA · Nov. 2025 – Present

Founder & Product Lead

- **Source-to-Table Cooking Ecosystem:** **Single-handedly engineered and deployed** in four weeks a source-to-table grocery and cooking ecosystem for study-abroad students, architecting and implementing a self-reinforcing AI loop: GPS-paired spatial analysis **pinpoints** optimally-stocked local stores, receipt-scanning automatically populates a smart-fridge database to **synthesize** tailored recipes, and community meal posts feed back to **continuously optimize** personal recommendation algorithms.
- **Post-Launch Ownership and Growth:** Scaled to **2,540 downloads**, **100+ daily active users**, and a **25.8%** impression-to-download conversion rate by harnessing the product's data network effect; tracked App Store Connect funnel metrics to target the loop's two highest-friction points, shipping streaming recipe generation that cut time-to-first-answer by roughly **85%** and profile-based cold-start recommendations to spin up the flywheel.

SKILLS

AI & Capabilities: Agentic Workflows, Multi-Agent Orchestration, RAG, Prompt Engineering, Funnel Analysis, Roadmap

Tools & Stack: Python, SQL, Libra, Swift, FastAPI, Vercel, Figma, ChatPRD