

Angelo Rizzieri

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EDUCATION

University of Chicago, B.S. Mathematics and Computer Science September 2024 – June 2028

- **GPA:** 3.72 / 4.00
- **Relevant Coursework:** Honors Combinatorics, Analysis in $\mathbb{R}^n$ I–III, Probability, Abstract Linear Algebra, Systems Programming

EXPERIENCE

Armatus Capital July 2026 – Present

Software Engineering Intern, Agentic AI Infrastructure

- Developed and deployed a full-stack financial analytics platform (555 automated tests) processing daily market data for 3,200+ equities into six interactive visualization tools used by a fund manager
- Built an AI research pipeline integrating LLM and SEC filing APIs to generate market analyses in which every claim is backed by automatically verified source citations
- Reduced false positives in a statistical market-signal detector from 3.8/day to 0.03/day by redesigning it with rigorous hypothesis testing

University of Chicago June 2026 – September 2026

Researcher (REU), Topological Dynamical Systems under Dr. Tina Torkaman

- Investigating illumination problems in mathematical billiards and Veech surfaces

University of Chicago June 2025 – September 2025

Researcher, Algorithmic Game Theory under Dr. Ishan Agarwal

- Proved a tight optimality bound for online contention resolution schemes on rank-1 matroids, a framework used in auction design and online pricing under uncertainty
- Constructed a matching algorithm achieving the bound, confirming that 50% acceptance probability is exactly optimal under adversarial ordering

PROJECTS

TRACE – tr4ce.net January 2026

- Engineered an 8-factor scoring model over data from 6 financial APIs to construct and rank causal DAGs explaining daily equity price movements; deployed via FastAPI and React with real-time streaming

Google Drive Search Agent February 2026

- Built an agentic retrieval and reasoning system over 10+ file types with a dynamic tool-use loop, reducing inference costs $\sim 90\%$ via prompt and tool-result caching

HONORS AND COMPETITIONS

Harvard Trading Competition, 3rd Place – Jump Trading Challenge March 2026

UChicago Hackathon, Finalist January 2026

PicoCTF, CMU Cybersecurity Competition – 135th of 10,460 global teams 2023 – 2025

ACTIVITIES

Maroon Capital October 2025 – Present

Analyst, UChicago quantitative finance and trading club

- Developed a systematic trading strategy that placed 1st out of 13 teams in club-wide competition
- Built a stock screener that uses regression on company fundamentals to flag potentially mispriced stocks

University of Chicago, Calculus Course Assistant September 2025 – Present

Grade weekly problem sets for 60+ students per quarter across Calculus I–III

SKILLS & INTERESTS

Languages: Python (NumPy, Pandas, Statsmodels.api, PyTorch, SciPy, HuggingFace Transformers), JavaScript/TypeScript, Java, C, SQL, R

Tools: React, FastAPI, Flask, Node.js, REST APIs, LLM APIs (Anthropic), Vercel, Git/GitHub, Linux, LaTeX

Interests: Guitar, Chess, Powerlifting