

FARHAN M KHAN

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EDUCATION

CUNY Hunter College | B.A. Computer Science, Minor in Mathematics | *Dean's List* | 3.5 GPA May 2027
Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture I–II, Software Design

PROJECTS

Role Scout ☑ | *Python, Claude API, LLM Evaluation, SQLite, GitHub Actions, Pytest*

- **Built an AI job-matching service** that polls **740+ employers'** public career-site APIs as often as hourly, ranks new roles by posting recency and resume fit, and emails a morning digest with **Claude API fit scores** and summaries
- **Designed a cost-tiered funnel:** a 25-rule deterministic screen rules out roles on stated requirements at \$0, a classifier extracts facts for about \$0.05 a run, and only top-ranked roles reach Claude (projected under \$0.50/user/day)
- **Calibrated the classifier against 112 labeled postings**, pruning 3 signals that carried no information and tightening a reject threshold after a full-corpus run surfaced wrongly rejected roles; results cached by content hash in SQLite

NYCHappyHours.org ☑ | *JavaScript, Python, PostgreSQL, Cloudflare Workers*

- **Built and operate a live site that helps New Yorkers find verified happy-hour deals:** 1,000+ schedules across 2,300+ venues and 4,000+ unique visitors since its July 2026 launch, with map/list search and geolocation
- **Engineered it to run as a live product:** a four-tier quality process for scraped and submitted venue data, a fallback that keeps the site up during database outages, admin tooling with rollback and audit history, and a CI test suite

Prediction Market Research Platform ☑ | *Python, asyncio, WebSockets, PostgreSQL, FastAPI, Docker*

- **Built a paper-only research platform for Kalshi and Polymarket:** a cross-venue arbitrage engine and a 15-job async trading testbench that evaluate strategies against fees, latency, slippage, and real order-book depth
- **Streamed 2.96M order-book records a day from both venues with a 52 ms median timing gap;** modeled slippage and failed fills, fixed a pricing bug that inflated apparent profit, and found no pair cleared one cent after costs
- **Built a point-in-time backtester over 10,000+ markets** with as-of data views and automated future-leak checks, validated by reproducing a published Polymarket study (99% of 54K quotes matched); 1,500+ tests

PROFESSIONAL EXPERIENCE

CUNY Hunter College | *Data & Reporting Assistant* Jan 2025 - Present | New York, NY

- Replaced a days-to-weeks manual reporting cycle with a spreadsheet system that computes reports as staff enter data, using VLOOKUP, SUMIF, and date logic across 400+ active records in 6+ language sections
- Migrated thousands of paper and digital student records into the system; now building AI-powered automation that reads student intake forms with OCR

Evergreen Realty and Investments | *Data Analyst Intern* Summer 2024 | Atlanta, GA

- Built a Python pipeline ingesting thousands of real estate listings from the Remine API, normalizing JSON and joining it with public housing, income, tax, and utility data in pandas for client affordability reports

Enercon Consultants | *Sales & Marketing Intern* Summer 2023 | New York, NY

- Parsed public business datasets to identify qualified leads across the tri-state area and built a semi-automated Apollo outreach pipeline, generating 20+ qualified leads at a 15% response rate and one signed contract

SUNY Downstate | *Project Aide* Jun 2022 - Feb 2023 | New York, NY

- Delivered 50+ community health workshops averaging 20 participants, translating clinical material for non-experts

COMMUNITY & CONTRIBUTIONS

Treasurer, Computer Science Club | CUNY Hunter College | Partnerships, fundraising, budget Jun 2026 - Present

Fellow, America Needs You | Selective two-year fellowship for first-generation students Aug 2025 - Present

SKILLS

Languages: Python, C++, SQL, JavaScript, HTML/CSS

AI & LLMs: Claude API, LLM evaluation and threshold calibration, structured outputs, cost-capped batching

Backend & Data: FastAPI, REST APIs, WebSockets, async Python, pandas, PostgreSQL, SQLite, Parquet/DuckDB

Tools & Practices: Pytest, Git/GitHub, GitHub Actions CI, Docker, Cloudflare Workers