

Nathanael Lara

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EDUCATION

Fordham University, Gabelli School of Business
Master of Science, Artificial Intelligence in Business

New York, New York
May 2026

New York University, Tandon School of Engineering
NYU Tandon Bridge - Computer Science Certificate

New York, New York
In Progress

The University of Texas at San Antonio
Bachelor of Business Administration, Finance

San Antonio, Texas
May 2025

PROFESSIONAL EXPERIENCE

BCG X (Boston Consulting Group)

New York, New York
June 2026 – Aug. 2026

AI Product Builder (Internship)

- Own the quality-evaluation workflow for the CFS Starter-Kit - a reusable-AI-component platform in BCG's Corporate Finance & Strategy portfolio (Project Helix) - building its first scoring rubric and an automated TypeScript/Vitest harness that set the recall/precision/critical-recall baselines the team measures against
- Built a ground-truth benchmark against the real product modules that reset the platform's headline retrieval metric from 71% on synthetic prompts to ~15% on real builds, revealing a structural coverage cap the synthetic tests had hidden
- Rebuilt block-retrieval scoring from flat keyword overlap to BM25 with field-weighting and stemming, and layered on synonym-mapping and dependency-expansion levers that raised measured recall to ~90% and cut the plain-language vocabulary gap from 38% to 13%
- Designed a persona-by-prompting-skill evaluation that exposed how skill-sensitive retrieval is, then showed the chat's clarifying-question flow recovers weak prompters, lifting novice results from ~35% to 71%
- Shipped block retrieval into the v2 assembly chat and a Claude Desktop MCP server (block search/bundle), plus a relevance floor that returns nothing on off-domain queries instead of a misleading best-of list
- Surfaced data-integrity and coverage defects that automated scoring caught but manual review had missed: broken cross-references across 37% of the catalog, and a home-screen module with zero catalogued components

OCI Group Consulting, LLC

San Antonio, Texas (Remote)

Independent Contractor - AI & Content

May 2026 – Present

- Built and led an AI training for the firm's managing partner and five other partners - who adopted the tools (Claude, ChatGPT, Gemini) into their workflows to automate reproducible deliverables like slide decks and client drafts
- Created the credentials deck the firm used in a live pitch for a role on a multi-billion-dollar development project - which advanced the partnership to its next stage

PwC Capstone Project

New York, New York

AI Agent Developer

Jan. 2026 – May 2026

- Automated end-to-end M&A deal monitoring across 51 live sources (SEC EDGAR, RSS, press releases) via a RAG pipeline (LangChain, Chroma, GPT-4o) with targeted 8-K section parsing, MD5 deduplication, and daily scheduling (APScheduler) - delivering refreshed deal intelligence without manual sourcing
- Built a structured deal extraction and financial enrichment pipeline (Pydantic-typed records, confidence-based SQLite upsert logic, SEC XBRL integration), cutting deal-attribute extraction from hours to sub-minute output while standardizing 10+ fields across inconsistent source formats
- Delivered a self-service Streamlit dashboard - filterable deal tables, LLM-generated one-pager briefs, EV/EBITDA multiples from XBRL data, and Google Sheets export - replacing ad-hoc research requests with a persistent intelligence layer

United Nations / Fordham University Collaboration

New York, New York

AI Graduate Consultant

Jan. 2026 – May 2026

- Reduced case law research time from hours to minutes for UN legal officers – enabling on-demand precedent lookup across 9,000+ UNDT/UNAT cases spanning 15+ years without manual database querying
- Delivered UNLex as a production tool adopted by the UN Office of Legal Affairs, serving as the department's primary research interface for tribunal case history
- Captured senior legal officers' precedent expertise into a queryable knowledge system – turning institutional know-how at risk from attorney turnover into a durable, searchable asset for incoming staff

PROJECTS

AI Blocks

Apr. 2026

Visual AI/ML Programming Environment, 1st Place - vibeFORWARD Hackathon

- Developed drag-and-drop block components and editor UI in React/Vite for an open-source visual AI/ML pipeline tool - composing LLM, agent, RAG, vision, and fine-tuning steps as typed block graphs that the assembler converts to runnable Python
- Contributed to the typed block schema system and Python runtime layer, defining input/output ports across pipeline categories including transformers, embeddings, classical ML, and control flow
- Implemented the block connection system handling port-to-port wiring between pipeline nodes, and proposed the graph-to-code assembly feature - shifting the tool from a static pipeline uploader to a live Python code generator from the visual canvas

AEGIS

Mar. 2026

Multimodal Situational Intelligence System, 1st Place - Grayscale Hackathon

- Deployed a browser-based real-time threat detection system using WebRTC, Web Speech API, and Claude Vision for simultaneous multimodal analysis of live camera and microphone input
- Assembled a multi-provider AI architecture with interchangeable vision, audio, and reasoning layers (Claude Vision, YOLOv8, Whisper, Ollama) and a structured JSON escalation pipeline with motion-gated dispatch workflows

TECHNICAL SKILLS

AI/Programming: Python, TypeScript, SQL, RAG, Prompt Engineering, ML, NLP, NumPy, BM25, APIs, Automation, LLM

Frameworks/Tools: LangChain, Streamlit, ChromaDB, Pydantic, Vitest, MCP, Microsoft Copilot Studio, Git

Finance/Economics: Financial Modeling, Statistical Modeling, Algorithmic Fairness, Empirical Research, XBRL/SEC Data, CRM Management