

# Chris Maresca

409E 84<sup>th</sup> St. #9 New York, New York | (845) 260-5680 | [cpm89@cornell.edu](mailto:cpm89@cornell.edu)  
<https://www.linkedin.com/in/chris-maresca/>

## EDUCATION

---

### Cornell University

#### THE CHARLES H. DYSON SCHOOL OF APPLIED ECONOMICS AND MANAGEMENT

*Bachelor of Science in Applied Economics and Management* | Finance

**Relevant Courses:** C++, Corporate Finance (A), Fixed Income (A+), Financial Stmt. Analysis (A)

**Ithaca, New York**

Graduated May 2023

*GPA: 3.95; Magna Cum Laude*

## PROFESSIONAL EXPERIENCE

---

### NECTAR (YC S23)

*AI Data Pipeline Consultant*

**New York, New York**

*June 2024 – July 2024*

- Built an AI web scraper using LlamaIndex, GPT-4o/4V, & Playwright to enable LLM decision-making in goal-oriented jobs.
- Engineered GPT-4o agents to verify scraped results & retry failed jobs with prompt eng. strategies such as CoT & role playing.
- Leveraged tiktoken & tenacity to build callback managers with exponential backoff, ensuring model rate limit adherence.

### BLACKROCK

*Fixed Income Portfolio Management Analyst*

**New York, New York**

*July 2023 – December 2023*

- Drive the inflation strategy by analyzing securities through macro insights, commodity trends, and US-UK market synergies
- Manage cash balances and risk hedging for index positioning, stewarding portfolios with approximately \$55 billion AUM
- Craft SOFR and Federal Funds rate projections through 2026, steering the long-term rates strategy in our flagship fund

### TESLA

*Corporate Financial Planning & Analysis Intern*

**Palo Alto, California**

*June 2022 – Aug 2022*

- Optimized the SQL and Python infrastructure of Tesla's cost database, improving production update speeds by 60%
- Developed cash flow sensitivity dashboards using Python, SQL, and React based on potential fluctuations in FX rates
- Modeled the P/L impacts of fluctuating FX rates, spearheading the implementation of risk mitigation strategies

## Projects

---

### WORKMAIT.AI

*Founder & Core Engineer*

**New York, New York**

*June 2024 – Present*

- Built a Google Docs equivalent editor app in Next.js 14 with user auth. (Firebase), MongoDB, Tailwind, Shadcn, & TipTap.
- Leveraged GPT-4o/mini to allow users to 'train' an AI writing assistant on diff. writing styles that can be used across projects.
- Currently interviewing pot. users and searching for PMF across writing- and research-intensive domains in both B2C and B2B.

### RAG REST API

*Sole Engineer*

**New York, New York**

*June 2024 – Present*

- Developed a REST API (FastAPI) enabling users to maintain fully managed knowledge repos. for integration with AI services.
- Leveraged the LlamaIndex framework to engineer support for both vector-based (Pinecone) and graph-based (Neo4j) retrieval.
- Planning to incorporate the API into Workmaid, empowering users with an AI-powered research and citation assistant.

### AGENTIC WORKFLOW FRAMEWORK

*Sole Engineer*

**New York, New York**

*April 2024*

- Engineered an agentic communication framework built on top of function-calling LLMs and the LlamaIndex framework.
- Incorporated ReAct reasoning methodologies to aid agents in decision-making (i.e. calling an external tool or 'coworker')

## Technologies, Interests, & Awards

---

**Tech:** Python, Typescript, Next.js 14, FastAPI, Tailwind, Mongo, SQL, Firebase, Pinecone, Neo4j, LlamaIndex, Clerk, Liveblocks

**Interests:** Self-proclaimed number one fan of Peaky Blinders, weightlifting & biking/running, reading philosophy & history

**Awards:** Magna Cum, IBM Thomas J. Watson Memorial Scholarship Award Winner 2019, National Merit Finalist