

# Peter Majors

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Backend developer specializing in Python and LLM-native applications. Experienced building scalable financial reporting platforms and research tools that accelerate decision-making.

## TECHNICAL SKILLS

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**Languages:** Python, SQL, JavaScript/TypeScript, R, C++

**Frameworks & Libraries:** FastAPI, Flask, Celery, Pandas, Scikit-learn, LangChain, llama.cpp

**Cloud & Databases:** Amazon Web Services, PostgreSQL, MongoDB, Redis, Databricks

**DevOps & Tools:** Docker, Kubernetes, GitHub Actions, Datadog, Snyk, Azure DevOps

## RELEVANT EXPERIENCE

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### Marsh & McLennan Companies, Inc.

New York, New York

*Senior Application Development Analyst - Autonomous Finance*

Jul. 2023 – Present

- Engineered financial reporting platform for **\$20B** P&L automating creation of **500+** GAAP & regional decks for month-end close
- Built async Celery-based ETL generating **4,000+** reports hourly from Oracle Essbase with automated variance commentaries
- Developed Redis/WebSocket layer enabling **300+** global controllers to comment real-time on synchronized financial data
- Led monthly production release cycle, coordinating UAT with stakeholders, and ensuring reliability through Datadog monitoring
- Designed LangGraph agent to query EPM data and traverse business hierarchies via NetworkX graphs, supporting chat interface for FP&A research; developed evals pipeline to quantify impact of context engineering, improving accuracy **30%** over baseline

### Finance Innovation & Technology Intern

Jun. 2022 – Aug. 2022

- Built proof-of-concept Flask REST API with JavaScript client to perform broker service amortization calculations in line with ASC 606 revenue recognition standards; consulted directly with global controllership teams on product design

### Proskauer Rose, LLP

New York, New York

*Accounting Intern*

Jun. 2021 – Jul. 2021

- Automated journal entry and reconciliation workflows using Excel Macros, expediting two month-end close cycles

## LEADERSHIP & COMMUNITY

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### Fordham Sports Analytics Society - Fordham's Best New Student Organization (2021)

Bronx, New York

*Founder, President*

Oct. 2020 – May 2023

- Founded Fordham's first sports analytics club and grew active membership to **30+** students through weekly programming including data science workshops, member research presentations, and **25+** interviews with sports data professionals
- Launched and edited research blog publishing **36** data-driven sports articles, averaging **300+** views while boosting club visibility
- Partnered with Fordham Athletics to establish University's first student-run baseball scouting department and leverage analytics platforms to provide opponent analysis for football, women's basketball, and women's soccer

### Cystic Fibrosis Foundation - Tomorrow's Leaders

New York, New York

*Volunteer & Professional Development Council Member-Elect (Jan. 2026)*

Oct. 2023 – Present

- Raised **\$5,000** for Cystic Fibrosis research by completing the 2024 NYC Half-Marathon with the Breathe Team
- Expanded mission awareness and donor base by recruiting colleagues and peers to bi-monthly networking events

## CASE COMPETITIONS

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### March Data Crunch Madness - Fordham GSAS | Python, R, XGBoost

Bronx, New York

*Team Lead - Placed 3rd of 22*

Jan. 2022 – Mar. 2022

- Led development of an XGBoost classification model to predict 2022 NCAA Men's March Madness matchup outcomes
- Introduced an "Adjusted Seed Gap" feature based on KenPom's AdjEM to quantify team over/under-seeding, achieving prediction accuracy of **65%** for matchups with  $\leq 5$  seed differential

### Syracuse Football Analytics Blitz | Python, R, Scikit-learn

Bronx, New York

*Team Member - Placed Top 4 of 17*

Feb. 2022

- Analyzed PFF and nflfastR play-by-play data with Pandas to identify offensive tendencies for the 2021 Kansas City Chiefs
- Developed Scikit-learn logistic regression models to forecast play calls (pass vs. run, play-action, and motion) for five game states to guide coverage and personnel recommendations aimed at minimizing EPA/play

## EDUCATION

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### Fordham University, Gabelli School of Business

Bronx, New York

*Bachelor of Science in Accounting Information Systems, Minor in Computer Science | GPA: 3.8/4.0*

Sep. 2019 – May 2023

**Academic Awards:** Summa Cum Laude, Gabelli School of Business Dean's List

**Coursework:** Advanced Python for Business, Internet & Web Programming, Database Systems, Cyber Secure Networks