

# Peter Majors

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https://peterlmajors.github.io/portfolio/

## EDUCATION

### 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

## RELEVANT EXPERIENCE

### 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 serving 300+ global colleagues, automating the generation of 40+ executive decks each month and shifting controllership's focus from variance identification to strategic commentary
- Architected async Celery-based ETL pipeline generating 4,000+ Oracle Essbase reports each hour during month-end close
- Enabled real-time commentary collaboration and synchronized financial data views using Redis pub/sub and WebSockets
- Owned monthly production release lifecycle, coordinating UAT and maintaining reliability via proactive Datadog monitoring
- Developed custom evaluation pipeline for LLM-powered FP&A research assistant to support prompt and context optimization

Finance Innovation & Technology Intern

Jun. 2022 – Aug. 2022

- Built proof-of-concept application to automate amortization of broker services, ensuring ASC606 GAAP compliance

### Proskauer Rose, LLP

New York, New York

Accounting Intern

Jun. 2021 – Jul. 2021

- Prepared journal entries and bank reconciliation, supporting month-end close; automated processes with Excel Macros

## LEADERSHIP AND EXTRACURRICULARS

### 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, growing active membership to 30+ students through weekly programming including machine learning workshops, member research presentations, and 21 guest lectures from sports data professionals
- Launched and edited research blog publishing 35 data-driven sports articles, showcasing member technical expertise
- Partnered with Fordham Athletics to establish University's first student-run baseball scouting department; built reports and leveraged 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

Oct. 2023 – Present

- Raised \$5,000 for Cystic Fibrosis research by completing the 2024 NYC Half-Marathon with the foundation's Breathe Team
- Recruiting peers to young professional networking events to expand awareness and donor base

## CASE COMPETITIONS

### Fordham March Data Crunch Madness

Bronx, New York

Team Lead - Placed 3rd of 22

Jan. 2022 – Mar. 2022

- Developed and presented XGBoost model to predict win probabilities for all possible 2022 March Madness matchups
- Introduced an adjusted seed gap using KenPom's AdjEM; engineered features from team and position-level metric differentials

### Syracuse Football Analytics Blitz

Bronx, New York

Team Member - Placed Top 4 of 17

Feb. 2022

- Devised and presented defensive schemes to counter Kansas City Chiefs' offense by analyzing Pro Football Focus and nflfastR play-by-play data with Pandas; identified formation and situational tendencies to guide coverage and personnel decisions
- Built logistic regression models with Scikit-learn to predict pass vs. run, play-action, and motion to support play design

### National Football League - Big Data Bowl

Bronx, New York

Team Lead

Dec. 2022 – Jan. 2023

- Leveraged Next Gen Stats player tracking data to detect and evaluate pass-blocking engagements from the 2021 NFL season
- Modeled how seven spatial-temporal features affect QB-rusher separation at pass release, achieved  $R^2$  of 0.66 for tackles and 0.54 for interior linemen predicting separation when trained and tested on consecutive four week samples

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, SQL, R, JavaScript, HTML/CSS, C/C++, PHP

**Frameworks & Libraries:** FastAPI, Flask, Pandas, Polars, NumPy, Scikit-learn, LangGraph, llama.cpp, vLLM

**Cloud & Databases:** AWS, PostgreSQL, MySQL, MongoDB, Redis, Databricks

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