

# Peter Majors

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## EDUCATION

### Fordham University, Gabelli School of Business

*Bachelor of Science Accounting Information Systems, Minor in Computer Science*

GPA: 3.8/4.0

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

**Study Abroad:** Fordham University - London Centre (Spring 2022)

**Bronx, New York**

*Sep. 2019 – May 2023*

## RELEVANT EXPERIENCE

### Marsh & McLennan Companies, Inc.

*Senior Application Development Analyst - Autonomous Finance*

**New York, New York**

*Jul. 2023 – Present*

- Led backend development of financial insights application for a \$20B P&L, combining NLG variance analysis, a colleague commentary suite, and automated PowerPoint deck generation to expedite and standardize reporting
- Built a FastAPI and PostgreSQL backend delivering hourly updates to 4,000+ financial reports, with Okta-based role access control and real-time collaboration for 300+ global controllers via Redis and WebSockets
- Developed multi-agent FP&A researcher using LangGraph and MCP to retrieve EPM, CRM, and transactional data
- Designed a RAG-based metadata management system to institutionalize insights across datasets, using NetworkX to map and traverse hierarchical income statement structures effectively with few-shot tool calling

*Finance Innovation & Technology Intern*

*Jun. 2022 – Aug. 2022*

- Automated the amortization of broker service costs by building a full-stack application using Flask and JavaScript

### Proskauer Rose, LLP

*Accounting Intern*

**New York, New York**

*Jun. 2021 – Jul. 2021*

- Automated allocation workflows with Excel Macros; prepared journal entries and reconciliations for month-end close

## LEADERSHIP AND EXTRACURRICULARS

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

*Founder, President*

**Bronx, New York**

*Oct. 2020 – May 2023*

- Founded Fordham's first sports analytics club and led weekly programming for a 350+ member community featuring coding workshops, member-led research presentations, and 20 guest lectures with sports data professionals
- Established partnership with Fordham Athletics to launch university's first student-run baseball scouting department and conduct research on behalf the football, women's basketball, and women's soccer programs
- Led club blog editorial efforts, authoring 6 research articles while assisting peers on 29 additional publications

### Cystic Fibrosis Foundation - Tomorrow's Leaders

*Committee Member*

**New York, New York**

*Oct. 2023 – Present*

- Raised \$5,000 for Cystic Fibrosis research by completing the NYC Half-Marathon with the foundation's Breathe Team
- Supporting fundraising and outreach efforts at monthly events and campaigns including Great Strides and the CF Cup

## CASE COMPETITIONS AND RESEARCH

### National Football League - Big Data Bowl

*Team Lead*

**Bronx, New York**

*Nov. 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

### Fordham March Data Crunch Madness

*Team Lead - Placed 3rd of 22*

**Bronx, New York**

*Jan. 2022 – Mar. 2022*

- Developed and presented XGBoost model to predict win probabilities for all 2022 March Madness matchups
- Built features from team and positional metric differentials; introduced adjusted seed gap using KenPom's AdjEM

### Syracuse Football Analytics Blitz

*Team Member - Placed Top 4 of 17*

**Bronx, New York**

*Feb. 2022*

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

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** Python, Javascript, SQL, R, C/C++, HTML/CSS

**Cloud & Platforms:** Amazon Web Services (AWS), PostgreSQL, MongoDB, Redis

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

**Personal Interests:** Music (Acoustic Guitar, Country), Sports (Varsity Baseball – Seton Hall Prep, Golf)