

# Peter Majors

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

## 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

- Engineered financial reporting platform for a \$20B P&L, integrating natural language variance analysis, a colleague commentary suite, and automated PowerPoint deck generation with SharePoint integration to expedite month-end close
- Built pipeline (Celery, FastAPI, Pandas, PostgreSQL) delivering hourly updates to 4,000+ financial reports from Oracle Essbase
- Implemented Redis pub/sub with WebSockets to enable real-time data refreshes and collaborative report building
- Integrated Okta for authentication and implemented hierarchical, region-based authorization for 300+ global controllers
- Developing multi-agent FP&A research tool using LangGraph and Model Context Protocol to retrieve enterprise performance management, client retention, and transactional data

Finance Innovation & Technology Intern

Jun. 2022 – Aug. 2022

- Built proof-of-concept app using Flask and JavaScript to automate amortization of broker services, ensuring GAAP compliance

### 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 and scaled Fordham's first sports analytics club to 350+ members; led weekly programming featuring member research presentations, technical workshops, and 20+ guest lectures from sports data professionals
- Established partnership with Fordham Athletics to launch university's first student-run baseball scouting department and conduct research on behalf of 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 - Greater New York Chapter Tomorrow's Leaders

Professional Development Council Member

New York, New York

Sep. 2025 – 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
- Introduced an adjusted seed gap using KenPom's AdjEM; engineered features from team and position-level metric differentials

### 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 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, SQL, R, C/C++, JavaScript, PHP, HTML/CSS

Frameworks & Libraries: FastAPI, Flask, Pandas, Polars, NumPy, Scikit-learn, LangGraph, Hugging Face Transformers

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

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

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