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 which automates the generation of 500+ executive decks each month, 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 & 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 foundation's Breathe Team
- Expanding mission awareness and donor base by recruiting colleagues and peers to networking events

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, NumPy, Scikit-learn, LangGraph, llama.cpp
Cloud & Databases: AWS, Databricks, PostgreSQL, MySQL, MongoDB, Redis
DevOps & Tools: Git, GitHub Actions, Docker, Kubernetes, Datadog, Snyk, Komodor, Azure DevOps