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

Languages: Python, SQL, JavaScript, 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

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 generating **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
- Implemented distributed Redis pub/sub and WebSocket architecture supporting real-time collaboration for **330+** global controllers
- Led **8** production releases, coordinating testing with stakeholders and ensuring system reliability through Datadog and Flower
- Designed LangGraph agent to query EPM data and traverse business taxonomies 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

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 research presentations, data science workshops, and **25+** interviews with MLB, NFL, and NBA analysts and executives
- Launched and edited research blog featuring **36** data-driven sports articles averaging **300+** views, increasing 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

March Data Crunch Madness - Fordham GSAS   **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 ≤5 seed differential

Syracuse Football Analytics Blitz   **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 5 game states to guide coverage and personnel recommendations aimed at minimizing EPA/play

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