Jackson Giemza

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Data scientist with hands-on experience in financial risk analysis, data automation, and AI-driven insights. Skilled in Python, SQL, and machine learning, with a passion for solving complex problems through data-driven decision-making.

Education

University of Colorado, Boulder, CO | Expected Graduation Dec 2025

Bachelor of Science, Information Science | Minor, Philosophy

Relevant Courses: Data Visualization, Statistics, Python for Info Sci 1&2, Linear Algebra, R for Data Science, Logic, Quantitative Reasoning, Physics 1&2, Calculus, Economics, UI/UX Design

Experience

Risk Technology Analyst | RJ O'Brien & Associates

May 2024 - Aug. 2024, Chicago, IL

- Developed a Python-based solution to automate financial audit requests, **reducing work** for analysts by **dynamically generating** and scheduling **15+ personalized emails** bi-weekly.
- Led the project from concept to deployment, including training future maintainers and creating a **Power BI dashboard** for monitoring requests and manually sending custom emails ad hoc.
- Identified the need for and developed a **Python GUI** for generating customized anonymous test data for users of all technical expertise.
- Served as an ambassador for new AI tools by **interviewing** coworkers to identify pain points in AI adoption and **conducting 10+ one-on-one demos** teaching how to leverage gen. AI.

Data Science Intern | CloudQuant

May 2023 - Aug. 2023, Chicago, IL

- Expanded the data catalog by **8000+ datasets** through seamless integration of various data APIs and dynamic web scrapers.
- Strategically utilized the new **OpenAI API** to automate data entry and cleaning processes, significantly enhancing efficiency while reducing manual workload.
- Drove insights through analysis and data visualization.

Summer Intern | RJ O'Brien & Associates

May 2022 - Aug. 2022, Chicago, IL

- Engineered automated risk reports for quarterly and daily distribution.
- Designed a comprehensive financial analysis dashboard for vendor viability.
- Conducted rigorous **User Acceptance Testing** for the credit API.

Projects

Statistical Arbitrage Trading Strategy

- Leveraged public historical market data to identify mean-reverting stock pairs based on cointegration analysis
- Backtesting the strategy over 3 years of data, evaluating performance with a Sharpe ratio (1.4), max drawdown (-12%), and win rate (60%), demonstrating consistent profitability in diverse market conditions.

Kaggle Competition | Multi Class Prediction of Obesity Risk

- Developed a classification model to predict obesity risk rates using logistical regression, random forest, and XGBoost.
- Achieved top 8% ranking by optimizing hyperparameters and handling missing data with imputation strategies

Skills: Python (Pandas, NumPy, Matplotlib, Altair, Spacy, Selenium, Scikit, PyTorch, TensorFlow), SQL (MySQL, PostgreSQL), Git, Tableau, PowerBI, NLP