

Jacob Ball

Aspiring Data Scientist | Machine Learning Engineer | Security Clearance: SECRET (Inactive)
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Education

Fordham University - Bronx, NY	GPA 3.89
Bachelors of Science in Information Technology & Systems	Expected May 2026
Masters of Science in Data Science (Concentration: Machine Learning)	Expected May 2027
<ul style="list-style-type: none">• Relevant Courses: Database Applications (SQL), Algorithms for Data Science (Python), Computer Science I & II (OOP, C++), Data Structures (C++), Statistics I, Database Systems (SQL/PostgreSQL)• Academic Year 2024 - 2025 Deans List	

Experience

Westchester Country Club - Rye, NY	May 2024 - Oct 2025
<i>Security Officer (Problem Solving, Attention to Detail, Communication, Time Management)</i>	
<ul style="list-style-type: none">• Improved operational efficiency by designing and implementing new patrol logging procedures, reducing reporting time, and increasing data visibility across the security team.• Demonstrated strong interpersonal and communication skills by addressing member concerns professionally, managing competing priorities, and maintaining high standards under pressure	
Marine Corps - Okinawa, Japan Corporal	Jul 2019 - Jul 2023
<i>Network Administrator (Linux, IT, Cybersecurity, Leadership, Continuous Improvement)</i>	
<ul style="list-style-type: none">• Designed and maintained local and campus area networks, ensuring 99.999% uptime for over 100+ users during critical operations. Demonstrated the reliability and composure for high stakes data infrastructure.• As Platoon Network Chief, spearheaded IT operations for the Balikatan 2023 exercise, deploying LAN infrastructure to support over 200+ personnel.• Improved network efficiency by automating routine administrative tasks, reducing configuration time by 30% using scripting.	

Projects

Stock Market Data Pipeline & Prediction Model [Link]	Dec 2025
<i>Personal Project (Python, Scikit-learn, Pandas, Time Series Analysis, Data Ingestion)</i>	
<ul style="list-style-type: none">• Built an end to end data ingestion pipeline using the yfinance API to collect and normalize historical market data, implemented automated data transformation and cleaning workflows using pandas• Built Random Forest classifier with backtesting engine achieving 55.7% precision across 9000+ historical trading days, and implemented train-test splits to prevent data leakage.	
Directed Weighted Graph with Breadth-First Traversal	Nov 2025
<i>Data Structures (C++, Graph Theory, STL, Dynamic Memory, Algorithm Implementations)</i>	
<ul style="list-style-type: none">• Implemented a directed weighted graph ADT using adjacency matrix representation with dynamic 2D arrays, supporting vertex/edge operations and graph traversal algorithms.• Developed breadth-first traversal algorithm using STL queue and vertex marking system, achieving O(V+E) time complexity for efficient graph exploration across 7+ vertices and 9+ weighted edges	

Technical Skills

Programming & Tools: Python, SQL, C++, Git, GitHub, Linux, Javascript, HTML
Data Analysis: Pandas, NumPy, Applied Statistics, Data Modeling, Data Wrangling, Data Ingestion
Machine Learning: Classification, Regression, Clustering, Time Series Analysis, Anomaly Detection, PyTorch
Visualization: Tableau, Matplotlib, Seaborn
IT & Networking: FortiGate Firewalls, Cisco Call Manager, LAN/WAN setup and maintenance
Soft Skills: Leadership, Communication, Continuous Improvement, Troubleshooting, Self Starter, High Standards