Jacob Ball

Security Clearance: SECRET (Inactive)
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Education

Fordham University - Bronx, NY **GPA 3.76**
Master of Science in Cybersecurity & AI *Expected May 2027*
Bachelors of Science in Information Technology & Systems *May 2026*

- Relevant Courses: Systems Analysis, Secure Cyber Networks, Database Applications (SQL), Algorithms for Data Science (Python), Computer Science I & II (OOP, C++), Data Structures (C++)
- Academic Year 2024 - 2025 **Deans List,** Magna Cum Laude

Experience

Handshake - Remote Jan 2026 - Present
AI Trainer (Data Annotation, Multimodal AI, Quality Assurance, Human-in-the-Loop)

- Evaluated and annotated multimodal AI outputs across text, image, audio, and video formats, maintaining strict quality benchmarks within a human-in-the-loop workflow.
- Analyzed AI failure cases, applied image transformations, and annotated objects in images and videos using coordinates and timestamps to improve model accuracy and consistency.

Marine Corps - Okinawa, Japan - Corporal Jul 2019 - Jul 2023
Network Administrator (Network Security, Linux, Access Control, Security Hardening, Cybersecurity, Leadership)

- Secured and administered classified LAN/WAN infrastructure for 100+ users, enforcing access controls, security protocols, and network hardening procedures to maintain 99.999% uptime during mission-critical operations.
- As Platoon Network Chief, led secure network deployment for the Balikatan 2023 joint military exercise, establishing and hardening communications infrastructure supporting 200+ coalition personnel in a high-stakes operational environment.
- Automated routine security configurations and network administrative tasks using scripted solutions, **reducing configuration time by 30%** while minimizing human error and attack surface.

Projects

FluxFolio | Personal Productivity Suite [Link] Mar 2026
Personal Project (Python, PyQt6, SQLite)

- Designed and built a multi-module desktop application backed by a normalized relational SQLite database, applying structured data modeling principles and writing organized, maintainable Python code throughout.
- Independently scoped analytical requirements, iterated on solutions, and shipped a reliable production tool, reflecting a customer-first mindset and end-to-end ownership of outcomes.

Stock Market Price Prediction [Link] Dec 2025
Personal Project (Python, Scikit-learn, Pandas, Time Series Analysis)

- Engineered time series features including rolling averages and trend indicators.
- 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.

Technical Skills

Programming & Tools: Python, SQL, C++, Git, GitHub, Linux, Microsoft Office
Data Analysis: Pandas, NumPy, Applied Statistics, Data Modeling, Data Wrangling
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
Other Skills: Leadership, Communication, Continuous Improvement, Analytical Skills, Data Storytelling