

Derrick Gan

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Education

Northeastern University, Khoury College of Computer Sciences – Boston, MA **GPA: 3.7/4.0**
Candidate for B.S. in Data Science and Business Administration | Concentration in Finance, Minor in Psychology April 2026
Awards & Activities: Dean's List, TAMID Group Tech Consulting & Investment Fund, Men's Club Basketball, CoSMO Peer Mentor
Relevant Coursework: Artificial Intelligence, Machine Learning 1 & 2, Advanced Programming with Data, Database Design

Technical Skills

Languages and Tools: Python, JavaScript, SQL, R, Git, React, Power BI, Docker, Azure DevOps, Jira
Packages and Frameworks: Pandas, scikit-learn, SciPy, statsmodels, PyTorch, Matplotlib, Hugging Face, TensorFlow, Seaborn

Professional Experience

BNY (Bank of New York) **Boston, MA**
Asset Servicing Intern June 2025 – August 2025

- Automated data population of 10,000+ fund records in Python by integrating external LEI reference data into internal systems, creating a unified master dataset across previously independent databases
- Reduced manual data enrichment time by 90%, enabling faster client fund onboarding and scalable ingestion of new data
- Implemented data validation and transformation rules to standardize schemas across sources, preventing data ingestion failures

Locust Walk – Life Sciences Investment Bank **Boston, MA**
Data Analytics Co-op June 2024 – December 2024

- Designed and implemented a logistic regression model to identify firm activities driving deal success, enabling investment banking analysts to evaluate 4000+ transactions and improve future deal acceptance rate
- Led migration from Made Market CRM to Power BI, improving data transformation and marketing search efficiency by 20%
- Deployed dashboard analyzing 20,000+ client profiles, financials, and descriptions to support investment decision-making

Bain Capital **Boston, MA**
Applications Developer Co-op July 2023 – December 2023

- Engineered a firmwide investment performance portal displaying financial metrics on portfolios, automating front-office user query requests, and saving over two hours per day previously spent manually running queries
- Integrated React Data Grid functionality to display and interact with fund records, enabling real-time updates and dynamic filtering as well as allowing exports of 5000+ funds to allow efficient portfolio analysis
- Implemented Track Record State Management, allowing front office analysts to customize, track, and revisit previous queries, reducing redundant inputs and improving portal usage efficiency by 50%
- Developed two Power BI dashboards for ESG fund analysis to provide deeper portfolio insights and assist ESG analysts in identifying and comparing the sustainability of different funds

Leadership Experience

Khoury College of Computer Sciences **Boston, MA**
Head Data Science Teaching Assistant September 2025 – Present

- Direct a TA team of 10+ to optimize lecture and office-hour coverage, ensuring consistent instructional support and timely issue resolution for 500+ students in DS 3000: Foundations of Data Science
- Oversee three course sections by managing assignments and grading pipelines to improve grading turnaround time
- Deliver weekly data science, calculus, linear algebra, and statistics office hours to strengthen students' quantitative foundations

Technical Projects

Class Notes RAG (Retrieval-Augmented Generation System) February 2025 – March 2025

- Built an end-to-end Retrieval-Augmented Generation (RAG) system that ingests and indexes unstructured PDF lecture notes, enabling semantic search and question answering over course materials
- Integrated a locally hosted LLM using Ollama, enabling private, low-latency inference without reliance on external APIs

KeyBase (Database Design) October 2022 – December 2022

- Designed and implemented a relational MySQL database to store and manage mock private customer credit card data
- Deployed a containerized AppSmith application using Docker and developed secure RESTful APIs in Python and SQL, enabling validated data retrieval, and reliable communication between the front-end interface and backend database

Interests

Golden State Warriors, Rapid & Blitz Chess, Coastal Hiking, Ironman Race, Personal Finance, Physical Therapy, Piano, Poker