

# Derrick Gan

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## Education

<b>Northeastern University, Khoury College of Computer Sciences</b> – Boston, MA <i>Candidate for B.S. in Data Science and Business Administration   Concentration in Finance, Minor in Psychology</i> 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	<b>GPA: 3.7/4.0</b> April 2026
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## 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