

DENNIS FRENKEL

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EDUCATION

Fordham University

New York, NY

B.S. in Computer Science, Minor in Economics

Expected May 2026

GPA: 3.75/4.00

Honors: Dean's List, Loyola Scholarship, Carolyn Dursi Cuniffe Presidential Scholarship

Clubs and Involvements: Blockchain and FinTech, Cybersecurity Club, National Society of Leadership & Success

- **Relevant Coursework:** Data Structures, Info and Web Programming, Database Management Systems, Computer Organization, Operating Systems, Theory of Computation, Computer Algorithms, Machine Learning, Software Engineering

EXPERIENCE

Quantitative Research Assistant

New York, NY

Fordham University Center for Ethics Education

September 2025 - Present

- Perform statistical analysis on 15+ years of educational data, processing datasets covering 6 New England states to identify trends in graduation rates, college persistence, and completion metrics across demographic segments
- Build interactive **Tableau** dashboards enabling real-time exploration of educational inequities for the New England Secondary School Consortium's (NESSC) 2025 Common Data Project Report, providing transparent, comparable data used by state education departments for policy decisions
- Apply advanced statistical methods in **R** and **Stata** to analyze longitudinal student outcomes disaggregated by economic status, ELL, disability, and race/ethnicity, contributing to annual reports tracking systemic educational disparities since 2009

Data Engineering Intern

New York, NY

Spotify

June 2025 - August 2025

- Engineered invoice date logic in Spotify's revenue platform to display monthly service periods instead of full campaign cycles; aligned advertising platform billing with direct sales campaigns, saving accounting team **40+ hours/month** in corrections
- Architected migration of ad exchange data reconciliation to centralized workflow orchestration platform; validated **3 months** of historical data parity, deprecating legacy processes
- Built data enrichment **ETL** pipeline using **Scala** and **BigQuery** to join team attribution metadata across distributed datasets; enabled enterprise clients to automatically identify internal team spend on invoices, reducing manual billing inquiries
- Developed automated validation framework using **SQL** and **Scala** to ensure data consistency across billing systems; streamlined **UAT** testing processes and maintained SOX compliance standards for financial reporting infrastructure

Managing Pharmacy Technician

New York, NY

Vera I Pharmacy

January 2022 – June 2025

- Streamlined data collection processes on an hourly, weekly, and monthly basis, facilitating detailed analysis, leading to **15% fewer stockouts** and a **10% boost in monthly sales**
- Queried and analyzed prescription and inventory data in **PrimeRx** using **SQL** to identify patient trends across **1,000+ profiles**, enabling improved forecasting and compliance tracking
- Implemented robust quality control measures, including data validation techniques, to ensure accurate prescription entries and minimize errors, thereby streamlining future audits and maintaining compliance with industry standards

PROJECTS

Cryptocurrency Portfolio Manager

- Developed a full-stack cryptocurrency portfolio app integrating **CoinMarketCap** for live pricing and **OpenAI** for personalized recommendations; enabled transaction tracking with timestamps and detailed records
- Utilized **MySQL Workbench** to design a secure database for storing user and transaction data and implemented interactive data visualizations with **Chart.js** to provide intuitive insights into portfolio performance

AHU Dataset Analysis for Energy Efficiency

- Analyzed **250K+ data points** with **Python** and **Pandas** to identify temperature anomalies and correlations; visualized KPIs in Excel and **Tableau** and delivered actionable recommendations to optimize AHU energy efficiency based on fan power and valve position data
- Implemented data cleaning and preprocessing techniques to handle missing values and outliers in time-series data, ensuring statistical validity of temperature and energy consumption analyses

SKILLS

Programming Languages: C/C++, Scala, Python, JavaScript, SQL

Frameworks & Tools: Flyte, Git/GitHub, IntelliJ, Pandas, Tableau, Heroku, Wireshark, ETL Processes

Technologies: MySQL, Google Cloud (GCS, BigQuery), NetSuite, CSS/HTML, MS Office (Excel, Word, PowerPoint)

Languages: English (Native), Russian (Native), Belarusian (Fluent), Ukrainian (Intermediate), Spanish (Intermediate)