

# Daniel Oyasodun

Newark, NJ

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## EDUCATION

### New Jersey Institute of Technology

Newark, NJ

*Bachelor of Science in Computer Science*

*Graduated Aug. 2025*

**Relevant Coursework:** Data Structures & Algorithms, Database Systems, Operating Systems, Software Engineering

## TECHNICAL SKILLS

**Languages:** Python, SQL, Java, R, C/C++, TypeScript, JavaScript

**Data & ML:** ETL Pipelines, Data Modeling, Pandas, NumPy, scikit-learn, PyTorch

**Frameworks:** FastAPI, Django, React, Next.js

**Cloud & Tools:** AWS, GCP, Docker, Redis, PostgreSQL, MariaDB, Git

**Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly

## EXPERIENCE

### B The Cause

June 2025 - Aug. 2025

*Backend Software Engineer Intern*

*Remote, US*

- Collaborated with a cross-functional team to build and deploy a Dockerized REST API backend for an AI platform analyzing student development gaps, reducing query time by 35%.
- Enhanced MariaDB schema and engineered test suite covering 80% of the codebase, improving reliability and cutting sprint delivery time by two weeks.
- Delivered weekly stakeholder presentations translating technical progress into actionable product insights.

### New Jersey Institute of Technology

Jan. 2024 - May 2024

*Undergraduate Research Assistant*

*Newark, NJ*

- Analyzed 500+ athlete injury records using Python (Pandas, NumPy, Matplotlib) to identify correlations between load and lower extremity injuries, co-authoring research paper on data-driven injury prevention strategies.
- Engineered data cleaning pipelines to process multi-season athlete datasets, reducing processing time by 40% and visualizing 3 key injury patterns that informed rehabilitation protocol recommendations.

### New Jersey Institute of Technology

June 2023 - Aug. 2023

*Computer Science Tutor*

*Newark, NJ*

- Taught coding workshops for 50+ students, creating reusable templates and guides to improve lab completion time and assignment scores.

## PROJECTS

### Fantasy Football GM Assistant — Data Pipeline + Full-Stack App

| Repository | Website

*Next.js, TypeScript, Python, FastAPI, Redis, LLM*

- Developed ETL pipeline to fetch, validate, and transform ESPN Fantasy API data powering dashboards and an AI chatbot for player insights.
- Optimized API performance by 40% through Redis caching and query tuning to handle high concurrency.
- Deployed and maintained the live application, iterating on user feedback to increase response consistency by 30%.

### Sports Data Analytics Repository

| Repository

*Python, R, scikit-learn, Tableau, GitHub Actions*

- Streamlined ingestion and processing of 1,000+ player records weekly via a python script and GitHub Actions, managing 1,000+ player records weekly for analytics dashboards.
- Designed and trained predictive regression model ( $R^2 = 91\%$ ) for NBA team win forecasting and developed K-means clustering models to segment 500+ players by their performance profiles.
- Produced 15+ visualizations to communicate insights on efficiency, defense, and positional trends across leagues.

### NBA Snapshot — Real-Time Android Score Tracker

| Repository | Demo

*Kotlin, XML, Room Database, Coroutines, REST API*

- Built and published a real-time Android score tracking app integrating REST APIs and local Room database caching for offline access.
- Optimized API request handling and UI rendering, achieving sub-second score updates under simulated load of 100+ concurrent users.
- Implemented MVVM architecture with LiveData, reducing UI update latency by 30% and improving maintainability across 12 app screens.

*Explore additional projects at [danieloyasodun.com](http://danieloyasodun.com)*