

# Daniel Oyasodun

Newark, NJ

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## EDUCATION

### New Jersey Institute of Technology

Newark, NJ

*Bachelor of Science in Computer Science*

*Sept. 2022 - Aug. 2025*

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

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** React, Next.js, FastAPI, Django, scikit-learn, PyTorch

**Data & Visualization:** Pandas, NumPy, Matplotlib, Tableau

**Infrastructure:** AWS, GCP, Docker, PostgreSQL, MariaDB, Redis, Git

## EXPERIENCE

### B The Cause

June 2025 - Aug. 2025

*Backend Software Engineer Intern*

*Remote, US*

- Built and deployed a Dockerized REST API backend using Laravel (PHP) for an AI platform that analyzes student development data and identifies learning gaps.
- Designed a MariaDB database schema and comprehensive test suite that helped the team ship features faster and with fewer bugs.
- Optimized database indexing and queries to support concurrent classroom access without performance degradation.

### New Jersey Institute of Technology

Jan. 2024 - May 2024

*Undergraduate Research Assistant*

*Newark, NJ*

- Designed and built SQL databases to organize and query athlete injury records for pattern analysis.
- Analyzed athlete injury records using Python to identify correlations between training load and injuries for evidence-based prevention research.
- Built automated data cleaning pipelines for multi-season datasets and created visualizations that informed new rehabilitation protocols.

### New Jersey Institute of Technology

June 2023 - Aug. 2023

*Computer Science Tutor*

*Newark, NJ*

- Taught Python and Java fundamentals through one-on-one sessions and group workshops, helping students build confidence with programming concepts and assignments.

## PROJECTS

### Fantasy Football GM Assistant — Data Pipeline + Full-Stack App | [Repository](#) | [Website](#)

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

- Built a full-stack platform that processes live ESPN Fantasy data into interactive dashboards with an AI chatbot for league strategy.
- Implemented Redis caching to speed up frequently accessed data during high-traffic periods like gameday.
- Deployed for my fantasy league (12 active users) and iterated weekly based on user feedback throughout the season.

### Sports Data Analytics Repository | [Repository](#)

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

- Automated weekly processing of player statistics with GitHub Actions to keep dashboards current.
- Trained machine learning models to forecast NBA wins and cluster players by performance style.
- Created visualizations exploring player efficiency, defensive impact, and positional trends across leagues.

### NBA Snapshot — Real-Time Android Score Tracker | [Repository](#) | [Demo](#)

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

- Developed an Android app tracking live NBA scores with offline caching via Room database.
- Optimized performance to handle multiple simultaneous live game updates using background coroutines.
- Implemented MVVM architecture with LiveData for responsive UI updates.

### Simple Pascal-Like Compiler — C++ Compiler Design Project

*C++, Recursive Descent Parsing, AST*

- Built a compiler for a Pascal-inspired language handling lexing, parsing, and program execution.
- Implemented variable scoping, expression evaluation, and syntax error reporting.
- Tested against diverse programs to ensure reliable handling of different coding patterns.

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