# 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
**Data & Visualization:** Pandas, NumPy, Matplotlib, Tableau
**Infrastructure:** AWS, 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 SQL databases and 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 fundamentals through one-on-one sessions and group workshops for introductory CS courses.

## 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 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.

*Explore additional projects at danieloyasodun.com*