

# 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, GraphQL

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

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

**Methodologies:** Agile/Scrum, Test-Driven Development, CI/CD

## EXPERIENCE

### B The Cause

June 2025 - Aug. 2025

Backend Software Engineer Intern

Remote, US

- Architected and deployed a Dockerized REST API backend using Laravel (PHP) for an AI-powered platform analyzing student learning data and identifying development gaps across partner schools.
- Optimized database queries and implemented strategic indexing on MariaDB, improving API response times and supporting concurrent classroom access without performance degradation.
- Delivered 8 production features in 10 weeks using agile methodology with comprehensive test coverage, writing unit and integration tests that caught critical bugs before production.

### New Jersey Institute of Technology

Jan. 2024 - May 2024

Undergraduate Research Assistant

Newark, NJ

- Engineered automated ETL pipeline processing 3+ seasons of athlete training data (10K+ records), reducing manual data prep time from 8 hours to 15 minutes per dataset.
- Built PostgreSQL database schema and executed complex SQL queries identifying 3 statistically significant injury risk factors ( $p < 0.05$ ), directly informing new rehabilitation protocols.
- Developed Python-based data visualizations highlighting injury risk trends, directly supporting evidence-based training and rehabilitation decisions.

### New Jersey Institute of Technology

June 2023 - Aug. 2023

Computer Science Tutor

Newark, NJ

- Tutored Python fundamentals through one-on-one sessions and group workshops for introductory CS courses.

## PROJECTS

### Soccer Analytics API — Data Platform

| Repository

TypeScript, GraphQL, PostgreSQL, Redis, Docker, Apollo Server

- Built high-performance GraphQL API processing 500K+ player statistics across 5 European leagues, enabling scouts to query and compare multi-season performance data with  $\sim 200$ ms average response time.
- Implemented Redis caching layer reducing database load by 70% and supporting 1K+ daily queries without performance degradation.

### Fantasy Football GM Assistant — Full-Stack App

| Repository | Website

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

- Deployed production web app serving 12-person fantasy league with 500+ weekly active sessions during NFL season, integrating ESPN API data with AI-powered strategy recommendations.
- Optimized data fetching with Redis caching, reducing repeated API calls by 85% and improving dashboard load times from 3.2s to 0.8s during peak Sunday traffic.

### Sports Data Analytics Repository

| Repository

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

- Automated weekly ETL workflow using GitHub Actions to process 2K+ player statistics, keeping Tableau dashboards current without manual intervention.
- Trained random forest regression model ( $R^2 = 0.91$ ) in predicting NBA team win totals; performed K-means clustering on 450+ players to identify 5 distinct performance archetypes.