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.

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 ¡200ms 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