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

Backend Software Engineer Intern — June 2025 - Aug. 2025
B The Cause — *Remote*

- Developed and containerized a REST API backend using Docker for an AI platform analyzing student development gaps, reducing average query execution time by 35% and improving data refresh rates for internal dashboards.
- Improved MariaDB schema design, enhancing API response by 25% and increasing internal data reliability.
- Built automated tests covering 80% of the codebase, accelerating Agile sprint delivery by 2 weeks.
- Delivered weekly stakeholder presentations, informing 3+ key decisions per sprint through actionable insights.

Computer Science Tutor — June 2023 - Aug. 2023
New Jersey Institute of Technology — *Newark, NJ*

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

Projects

Fantasy Sports GM Assistant — Data Pipeline + Full-Stack App | Repository | Website
Next.js, TypeScript, Python, FastAPI, Redis, LLM

- Implemented backend ETL pipeline that fetches, validates, and transforms ESPN Fantasy API data to power dashboards and an AI chatbot for player insights.
- Improved API performance by 40% via Redis caching, supporting concurrent requests efficiently.
- 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

- Automated multi-season data collection for NBA and Europe's Big 5 football leagues using GitHub Actions, handling 1,000+ player records weekly and producing dashboards with Tableau, Matplotlib and ggplot2.
- Engineered predictive regression model achieving R^2 of 91% for NBA team win forecasting and developed K-means clustering models to segment 500+ players across both sports by offensive/defensive performance profiles.
- Created 15+ data visualizations analyzing shooting efficiency, defensive ratings, and positional trends across NBA and European football leagues.

NBA Snapshot — Real-Time Android Score Tracker | Repository | Demo
Kotlin, XML, Room Database, Coroutines, REST API

- Developed the Android app from scratch, implementing REST API integration and local Room database caching for live NBA scores.
- 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