David Oladipupo

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PROFESSIONAL PROFILE

Data-driven Computer Science student (3.8 GPA) specializing in **Financial Analytics** and **Automated Data Pipelines**. Proven ability to build and deploy interactive data tools using **Python**, **Pandas**, and **Streamlit**. Passionate about transforming raw financial datasets into actionable visual insights for real-time decision-making.

EDUCATION

University of North Texas **Denton, TX**

Bachelor of Science *- Computer Science* *Graduation Date: May 2027*

GPA*: 3.8*

Relevant Coursework: *Data Structures & Algorithms, Object-Oriented Programming, Applied Statistics, Database Systems.*

TECHNICAL SKILLS

- **Languages:** Python (Advanced), SQL, C++, JavaScript (ES6+).
- **Data Science & Analysis:** Pandas, NumPy, Plotly, Streamlit, yfinance API, ETL Pipelines, Time-Series Analysis.
- **Developer Tools:** Git, GitHub, VS Code, Linux/Unix, RESTful APIs, JSON Data Handling.

PROJECT EXPERIENCE

Real-Time Market Trend Analyzer **Remote**

Python, Pandas, Plotly *Dec 2025 - Present*

- Engineered an automated ETL pipeline using the **yfinance API** to extract, clean, and process **1,200+ daily data points** (5 years of S&P 500 history), reducing manual data retrieval time by **99%**.
- Performed advanced time-series feature engineering with **Pandas** to calculate **50-day and 200-day Simple Moving Averages (SMA)**, generating technical indicators for trend analysis.
- Developed an interactive visualization system using **Plotly**, overlaying candlestick charts to automatically detect "Golden Cross" signals and classify market sentiment with **real-time precision**.

Interactive Financial Growth Simulator **Remote**

Python, Streamlit *Dec 2025 - Present*

- Designed and deployed a financial modeling tool using **Streamlit**, enabling users to perform real-time sensitivity analysis on **3 key variables**: principal, interest rates, and time horizons.
- Implemented a compounding simulation engine in **Python** capable of generating **30+ year longitudinal projections** in under **200ms**, visualizing exponential growth trends through interactive charting.
- Transformed raw mathematical outputs into an accessible UI, demonstrating full-stack capability by connecting algorithmic logic to a web-accessible frontend.

LEADERSHIP & INVOLVEMENT

Professional Leadership Program **Denton, TX**

Member *Aug 2025 - Present*

- Selected for a competitive program to develop leadership, communication, and professional etiquette.
- Actively participate in weekly workshops, networking events with industry professionals, and speaker talks.

CERTIFICATIONS

- **Data Science Methodology** | IBM (Dec 2025)
  - *Skills:* Data Cleaning, Preprocessing, Business Analysis, Model Deployment.
- **Python for Data Science, AI & Development** | IBM (Dec 2025)
  - *Skills:* Web Scraping, APIs, NumPy, Pandas.
- **What is Data Science?** | IBM (Oct 2025)
  - *Skills:* Data Analysis, Big Data, Data Mining, Data-Driven Decision-Making.