

David Oladipupo

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Professional Profile

Data-driven Computer Science student (3.9 GPA) specializing in **Financial Analytics** and **Automated Data Pipelines**. Proven ability to transform raw datasets into actionable visual insights using **Python**, **Pandas**, and **Plotly**. Experienced in building ETL workflows, simulation models, and interactive dashboards to solve complex data problems.

Education

University of North Texas

Bachelor of Science in Computer Science

Denton, TX

GPA: 3.9 / 4.0

Expected Graduation: May 2027

Relevant Coursework: Applied Statistics, Database Systems, Data Structures & Algorithms, Calculus II, Linear Algebra.

Technical Skills

- **Data Science & Analysis:** Python (Pandas, NumPy), SQL, Plotly, Streamlit, ETL Pipelines, Time-Series Analysis.
- **Financial Engineering:** Moving Averages (SMA/EMA), Market Sentiment Analysis, Compound Growth Modeling.
- **Developer Tools:** Git, GitHub, VS Code, Jupyter Notebooks, RESTful APIs, JSON Data Handling.
- **Languages:** Python (Advanced), SQL, C++, JavaScript.

Data Science Projects

Real-Time Market Trend Analyzer

Data Engineer

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 retrieval time by 99%.
- Performed advanced **time-series feature engineering** with Pandas to calculate 50-day and 200-day Simple Moving Averages (SMA), successfully detecting "Golden Cross" market signals.
- Developed an interactive visualization system using **Plotly** to overlay candlestick charts and classify market sentiment with real-time precision.
- Deployed the model as a web application using **Streamlit**, making complex financial data accessible to non-technical users.

Financial Growth Simulator

Algorithm Developer

Python, Simulation Logic

Dec 2025 – Present

- Designed a custom compounding simulation engine in Python capable of generating **30+ year longitudinal projections** in under 200ms.
- Implemented algorithmic logic to perform real-time sensitivity analysis on key variables (principal, interest rates, time horizons).
- Visualized exponential growth trends through dynamic interactive charting, aiding in long-term investment planning.

Engineering Experience

E-Plant Shopping Application

Full Stack Developer

React, Redux, Node.js

Jul 2025 – Oct 2025

- Built a RESTful API using Node.js to serve product data, demonstrating the ability to structure and retrieve data from backend systems efficiently.
- Implemented complex state management logic using Redux Toolkit, handling asynchronous data flow for a seamless user experience.

Certifications

- **Data Science Methodology** – IBM (Dec 2025)

Skills: Data Cleaning, Preprocessing, Business Understanding, Model Deployment.

- **Python for Data Science, AI & Development** – IBM (Dec 2025)

Skills: Web Scraping, API Integration, NumPy, Pandas.

Leadership

Professional Leadership Program

Member

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