

David Oladipupo

Fort Worth, TX — (682) 400-6465 — DavidOladipupo@my.unt.edu
[LinkedIn: david-oladipupo-gideon](#) — [Portfolio: oladipupo-david-portfolio](#)

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

Expected Graduation: May 2027

GPA: 3.9 / 4.0

Relevant Coursework: Applied Statistics, Research Methods, Database Systems, **Linear Algebra**, Data Structures & Algorithms, Software Engineering.

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, Streamlit, Plotly

Dec 2025 – Present

- Scaled the platform to ingest real-time data for **8,000+ global assets** (Stocks, Crypto, Indices) by implementing a **smart autocomplete** search engine with manual entry fault tolerance.
- Engineered a **local caching architecture** to store static ticker data, achieving **zero-latency** load times and eliminating external network dependency failures.
- Programmed algorithmic logic to calculate **50-day and 200-day Moving Averages** in real-time, automatically detecting and flagging "Bullish/Bearish" trend signals.
- Deployed a professional-grade dashboard using **Streamlit** and **Plotly**, featuring interactive candlestick charts for analyzing 5 years of historical market data.

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.