

# CHUKWONONSO NNONDUM

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## SKILLS

**Programming:** R, SQL, API, SAS, Stata, Python ([Pytorch](#), [Keras](#), [Pandas](#), [Matplotlib](#), [Numpy](#)).

**Tools:** PowerBI, Tableau, Alteryx, MySQL, MongoDB, Microsoft Excel ([VLOOKUP](#), [Macros](#), [VBA](#), [Index-Match](#))

**Miscellaneous:** Linux, GitHub, Snowflake, JIRA (Agile), Visual Studio, VMWare, AWS ([S3](#), [Athena](#), [Redshift](#))

**Certifications:** AWS Certified Machine Learning Engineer Associate, Certified Scrum Product Owner (CSPO), Harvard Business School – Credentials for Readiness, Advanced Relational Database and SQL.

## EXPERIENCE

**Springer Capital LLC**, *Chicago Metropolitan Area, IL*

August 2024 - January 2025

*Data Automation Intern - Inflation Impact Analysis on Investment Portfolios:*

- Led Agile initiatives as a CSPO, integrating Scoro with Power BI and Python to automate ETL processes and enhance data workflows, boosting process speed by **40%**.
- Defined and prioritized backlog for time series forecasting, enabling predictive insights into inflation trends and portfolio performance for proactive risk management.
- Collaborated with stakeholders to refine investment strategies through EDA and scenario testing, driving a **20%** shift toward inflation-resistant assets and improving long-term portfolio resilience.

*Data Automation Intern - Interest Rate Risk Modeling for Debt Instruments:*

- Developed a duration-based risk model using regression analysis and sensitivity testing, quantifying a **30%** exposure of debt instruments to interest rate changes, visualized workflows with **123Flows** for stakeholders understanding.
- Automated risk reporting with **Python** and **SQL**, enabling real-time updates and reducing manual effort, significantly improving accuracy and efficiency in risk monitoring.

**Algorithmic Trading**, *Richardson, TX*

February 2019 - Present

*Data Scientist - Self Employed*

- Designed and deployed algorithmic trading strategies for semiconductor stocks (Intel, AMD) and forex indices (GBP/USD, US30), integrating API-based execution with MetaTrader (MT4/MT5) for efficient automation.
- Analyzed historical price data using Python, R, and SQL, applying advanced statistical methods, machine learning, and AI to build proprietary indicators, forecast market trends, and optimize trade setups and risk management.
- Executed **ETL** on high-volume market data and utilized Backtrader and QuantConnect for rigorous backtesting, ensuring robust, data-driven strategy performance and continual refinement.

## PROJECTS

**Stock Trading Algorithm Developer**, *Algorithmic Trading & Data Analytics* [\[Code\]](#)

Python | API

- Built and automated an AI-driven stock prediction model combining technical analysis, sentiment analysis, and machine learning using data from Finhub.io, AG News (Hugging Face), Twitter, and Reddit APIs to support smarter investment decisions for employees and retail investors.
- Designed a sentiment analysis pipeline using Natural Language Processing (NLP) and VADER sentiment scoring to quantify market sentiment on a scale from -1 (weakest) to 1 (strongest).
- Conducted backtesting on 2 years of historical stock data with my self-developed trading strategy combined with a 3 month averaged-out VADER sentiment score to achieve a higher predictive accuracy of 45% at a 1:2 ROI ratio.

**Forex Trading Algorithm Developer**, *Algorithmic Trading & Data Analytics*; [\[Code\]](#)

Python | API

- Developed an Automated Trend-Following Trading Algorithm (Trading Bot) using Python's Schedule Module and MetaTrader 5 (MT5) API.
- Built a Real-Time Trade Execution System that buys/sells programmatically based on algorithmic signals.
- Applied 2 years' worth of backtesting with my self-developed trading strategy optimizations including Risk Management Features like automated lot sizing, stop-loss, and take-profit to give a win rate of 40% at a 1:2 ROI ratio.

## EDUCATION

**The University of Texas at Dallas**, *Dallas, TX*

(GPA: **3.23/4.0**)

MS in Business Analytics and Artificial Intelligence (*Data Science Specialization*)

August 2023 - May 2025

*Relevant coursework: Machine Learning, Advance Statistics for Data Science, Database Foundations, Big Data*

**Cyprus International University**, *Nicosia, Turkish Republic of Northern Cyprus*

(GPA: **3.33/4.0**)

BA in Business Administration

February 2021 - June 2023

*Relevant coursework: Financial Accounting, Advanced Statistics, Econometrics, Marketing, Business Management*