

# Ralph Nyasha Machote

+1(216)3258297    nrm96@case.edu    [LinkedIn](#)    [website](#)

## EDUCATION

Master of Science in Finance, Risk Management Analytics track ( May 2025)

Relevant coursework: Quantitative Risk Modelling, Algorithmic Trading, Empirical Finance, Financial Analytics and Banking, Investment Management, Derivatives and Risk Management, Corporate Financial Analysis, Financial Modelling.

Bachelor of Science in Neuroscience ( May 2025)

Relevant coursework: Statistics, Matlab, Calculus

**Skills:** Python( Numpy, Pandas) , R, SAS, Microsoft Excel ( Pivot Tables, VLOOKUP, financial modeling and forecasting), Airtable, Tipalti, Salesforce, QuickBooks, Prism, SQL (Redshift, Oracle), NoSQL, Power BI, Sages Intacct

## PROFESSIONAL EXPERIENCE

### The Veale Institute for Entrepreneurship at CWRU

#### Audit and Project Management Intern

06/2023 – Current

- Managed the auditing of 40 microgrant recipients and maintained extensive student databases, ensuring accuracy and financial accountability.
- Optimized operational outcomes, leading to a 2x increase in grant funding from Morgenthaler and the Burton D. Morgan Foundation.
- Developed and managed 4 grant databases utilizing Airtable automation, reducing manual workload and improving tracking.

#### Jumpstart Inc.

Cleveland, OH

#### Accounting Intern

05/2024-08/2024

- Managed daily invoice handling using Intacct, ensuring 100% transaction accuracy and seamless financial record-keeping.
- Optimized and enhanced workflow efficiency by streamlining vendor payments using Tipalti, maintaining 100% customer satisfaction.
- Reconciled financial transactions, improving cash flow management and financial transparency, handling over \$250,000 in payments.

#### Financial Analyst Intern

02/2024-05/2024

- Developed financial models and conducted risk analysis for 30+ new businesses in Northeast Ohio using Excel, improving decision-making accuracy.
- Designed and implemented 30+ financial projections and control systems using Intacct and QuickBooks, ensuring robust financial oversight.
- Created 20+ custom Excel financial models, increasing financial tracking accuracy by 25% across 30 businesses in Northeast Ohio.
- Enhanced financial precision for local entrepreneurs by 50% through streamlined accounting solutions in Intacct and QuickBooks.

### UDC at CWRU

08/2024-Current

#### VP of Finance

- Administered a \$300,000+ budget, ensuring efficient fund allocation and financial reporting for student-led organizations.
- Managed the allocation and auditing of budgets for 60+ student organizations, ensuring financial accountability and compliance
- Led finance workshops for student leaders, increasing financial literacy across 60+ organizations.
- Consulted with the executive board to develop annual financial strategies, eliminating over \$50,000 of student organizations' debt.

## PROJECTS

### FHLB Model with

Fall 2024

- Engineered a Python-based model for the Federal Home Loan Bank, utilizing PCA to reduce dataset complexity and identify key financial drivers.
- Discovered that 27% of first-time homebuyers were self-employed, leading to policy recommendations aimed at improving housing accessibility.
- Developed automated Python scripts for data visualization and trend identification, accelerating borrower demographic analysis.

### IPO Performance Analysis (Sponsored by PNC)

Spring 2025

- Conducted advanced regression analysis using SAS to identify key drivers of IPO performance across exchanges, industries, and economic conditions.
- Analyzed IPO returns from 1988-2024 using weighted and unweighted portfolio assessments, uncovering long-term market trends and investment insights.
- Evaluated the impact of market capitalization, stock exchange, and macroeconomic factors on IPO success, incorporating data from CRSP and Bloomberg.
- Assessed the viability of IPO vintage investing strategies by examining industry trends, market cycles, and economic conditions over time.\

## LEADERSHIP, AWARDS AND VOLUNTEERING

Volunteer – Greater Cleveland Food Bank | Academic Representative – Student Government | Dean's List

Research Fellow – American Heart Association 2023-24

Interests – Basketball, Marvel Comics, Mental health advocacy.