# Jordan Zambrano

Quantitative Researcher — Python Developer

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## Summary

Quantitative researcher and Python developer with expertise in algorithmic trading, data science, and numerical modeling. Experienced in developing trading algorithms, backtesting strategies, and working with large-scale financial datasets. Passionate about applying computational techniques to financial markets.

## Skills

- Programming: Python (NumPy, Pandas, Scikit-learn), SQL, C++
- Financial Modeling: Backtesting, Risk Management, Statistical Arbitrage
- Data Science: Machine Learning, Time Series Analysis, Bayesian Methods
- Tools: Jupyter, Git, Linux, Docker, Cloud Computing (AWS, GCP)

## Experience

**Independent Quantitative Researcher** 2023 - Present
*Developing algorithmic trading strategies, market analysis tools, and backtesting frameworks.*

- Designed and implemented high-frequency trading (HFT) models using Binance API.
- Conducted quantitative research on statistical arbitrage and volatility modeling.
- Developed backtesting frameworks to validate and optimize trading strategies.

**Python Developer – Financial Analytics Project** 2022 - 2023
*Designed data pipelines and visualization dashboards for financial market analysis.*

- Built automated scripts for data collection and processing from financial APIs.
- Implemented machine learning models for market trend predictions.
- Developed interactive dashboards using Plotly and Streamlit.

## Education

**B.Sc. in Physics** Yachay Tech University, Ecuador
*Specialization in Computational and Theoretical Physics.*

## Projects

**Cryptocurrency Market Scanner** 2023
Developed a Python-based scanner to identify trading opportunities in real-time using Binance API.

- Implemented statistical filters to detect arbitrage and breakout patterns.
- Optimized code for low-latency execution in high-frequency environments.

**Portfolio Optimization Tool** 2022
Created a Python tool using Modern Portfolio Theory (MPT) to optimize asset allocation.

- Integrated Monte Carlo simulations to assess risk and returns.
- Developed visualization tools to analyze portfolio performance over time.

## Certifications

- Algorithmic Trading Specialization – Coursera
- Python for Finance – Udemy
- Machine Learning in Finance – edX

## Languages

- Spanish: Native
- English: B2/C1