JOSE ACOSTA

Quant Developer | Systematic Trading | Quantitative Research

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PROFESSIONAL SUMMARY

Quant Developer and systematic trading practitioner with trading experience since 2018 and over 2 years developing automated trading systems across multiple markets. Primary expertise in Python-based quantitative research, systematic strategy development, backtesting, and validation, with working knowledge of C# and NinjaScript for trading-platform implementations. Experienced in Walk-Forward Validation, in-sample/out-of-sample testing, holdout evaluation, sensitivity analysis, and robustness testing, with a focus on translating trading hypotheses into reproducible and testable systems. Strong market-data and software-engineering background supporting reliable quantitative research workflows.

CORE SKILLS

Quant Development:	Python, Systematic Trading, Algorithmic Strategy Development, Backtesting, Strategy Automation, Market Data, Risk Management
Quant Research:	Statistical Analysis, Log Returns, Distribution Analysis, Median vs. Mean, Spearman/Pearson Correlation, Fat Tails, Feature Engineering, Monte Carlo/Resampling
Validation:	Walk-Forward Validation, In-Sample/Out-of-Sample Testing, Holdout Testing, Rolling/Sliding Windows, Sensitivity Analysis, Parameter Stability, Robustness Testing
Trading Technology:	C#, NinjaScript, Trading APIs, WebSocket, Execution Logic, Position Sizing, Risk/Reward, Drawdown Analysis
Engineering:	SQL, PostgreSQL, TimescaleDB, DuckDB, Parquet, Git, Pytest, FastAPI, Docker

PROFESSIONAL EXPERIENCE

Quant Developer & Trading Systems Engineer — TraderDaddy

Part-time | Aug 2024 – Jun 2025

- Developed automated quantitative research and trading-system components across multiple markets, primarily using Python and trading-platform tooling.
- Built reusable backtesting and validation frameworks, reducing manual research time by 60% and supporting approximately 3x growth in program capacity.
- Applied systematic evaluation through in-sample/out-of-sample testing, Walk-Forward validation concepts, parameter sensitivity, and robustness analysis, with market-data preparation workflows supporting strategy research.

Quant Developer / Data Engineering Consultant — Freelance

Sep 2022 – Jul 2024

- Built research-oriented software and data infrastructure supporting quantitative analysis, automated workflows, and model-ready datasets.
- Developed historical and real-time data pipelines and APIs for integrating and preparing datasets used in analytical and quantitative workflows.
- Implemented automated testing and CI/CD with Pytest and GitHub Actions, achieving approximately 90% code coverage, and developed services using FastAPI and Docker.

Head of Trading & Quantitative Data Systems — Fintech Alca Group, SA

Caracas, Venezuela | Feb 2019 – Jul 2022

- Built and managed quantitative data infrastructure supporting real-time and historical trading analysis.
- Automated portfolio optimization, risk analysis, and strategy-testing workflows, increasing testing throughput by approximately 10x.
- Developed quantitative dashboards and reporting systems that accelerated decision-making by approximately 40% and supported six-figure investor funding.

EDUCATION & CERTIFICATIONS

Data Science with Python — University of Michigan, 2024

Inferential Statistical Analysis with Python — University of Michigan, 2024

Professional Python Development — EasyCode, 2023

Associate's Degree, Civil Engineering Technology — IUTAJS, Venezuela, 2013

LANGUAGES

Spanish: Native | English: Professional Working Proficiency