

JAMES LEWIS

Algorithmic Trader | Quantitative Developer | Data Scientist

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Quantitative trading specialist with hands-on experience designing and deploying machine learning-driven trading systems in crypto markets, achieving 15–20% simulated ROI and live test wallet growth from \$30 to \$2,000+ in only a few weeks. My MSc dissertation applies cutting-edge ensemble models and real-time on-chain analytics to forecast risk and optimise position sizing on Solana tokens. Motivated by the challenge of uncovering alpha where others overlook, I turn research insights into robust, scalable trading systems.

EDUCATION

University of Exeter | MSc Data Science and Statistics (Distinction, 78% avg) | 2024-25

- Key methods: supervised & unsupervised learning, Bayesian inference, time-series forecasting, hierarchical & spatial-temporal modelling.

Loughborough University | BSc (Hons) Economics | 2019-23

- Strong quantitative focus, incorporating econometrics, statistical analysis and fundamental economics.

SKILLS & TECH STACK

Programming & Automation: Python, R, SQL, TypeScript, Git

Quantitative & Trading: Statistical Modelling, Time Series Analysis, Backtesting, Monte Carlo Simulation, Liquidity Provision Analysis, Risk Management Techniques, Algorithmic Position Sizing, Market Microstructure Analysis

Machine Learning: Supervised Learning (Classification, Regression), Unsupervised Learning (Clustering, Anomaly Detection), Tree-Based Models, Deep Learning Foundations (TensorFlow, PyTorch)

Crypto & Blockchain: DeFi Protocol Analysis, DEX Liquidity & Slippage Analytics, On-Chain Data Extraction, Smart Contract Event Tracking, Crypto Market Microstructure, Tokenomics Analysis

Databases: PostgreSQL, BigQuery

Data Engineering: Real-Time Data Pipelines, Optimized Numerical Computing (NumPy/Pandas)

RELEVANT EXPERIENCE

Self-Employed | Quantitative Trader & Developer | 2023–Present

- Developed and deployed low-latency trading bots targeting low-cap Solana tokens, generating 15–20% simulated ROI.
- Built LightGBM models with features including rug-pull heuristics, wallet clustering, token velocity, and liquidity depth.
- Designed modular bot architecture: Alpha Signal Bot (smart money detection + Discord push), Data Pipeline Bot (real-time OHLCV/liquidity ingestion), and ML Execution Bot (model-driven trade automation).
- Migrated codebase from Python to TypeScript, reducing latency and improving async performance.
- Validated performance through live testing: \$30 → \$2,000+ in 5 weeks (wallet verifiable).

Crypto Trading Projects | Independent Researcher | 2023–Present

- Engineered real-time infrastructure for trading 1000+ tokens using SolanaTracker and DexScreener data.
- Automated end-to-end trade signal delivery, model retraining, and metadata analysis.
- Executed both early-entry alpha and swing trading strategies based on live blockchain data and market microstructure insights.

Hudl | Intern, Revenue Operations | Oct 2023–Apr 2024

- Leveraged SQL & Python to aggregate and visualise 30+ product features, equipping sales with market-research insights. Built a live-updating intranet-connected spreadsheet, halved data-retrieval time (≈8 hrs/week saved).

Additional Projects

- Selected ML and data science projects available on GitHub: github.com/KetchupJL

INTERESTS

- Crypto Markets, Emerging Technology, AI Tech, Machine Learning Research and Mid Frequency Trading
- Olympic Weightlifting, Brazilian Jiu-Jitsu, Chess, RTS-Games.