

Markos Terzidis

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Multilingual chemical engineer who transitioned from managing and automating an international family manufacturing business to becoming a skilled investor and quant, actively managing portfolios, and developing trading systems.

Work Experience

Financial Analyst and Portfolio Manager, Private Investment Advisor Mar 2020 – Present

- Grew capital from \$30,000 to \$400,000 in crypto, timely repositioning to stable assets before market decline
- Shorted EURUSD from 1.15 to 1 based on fundamentals, protecting clients' purchasing power. Traded RUB similarly
- Developed a sophisticated backtesting framework in collaboration with programmers for strategy evaluation
- Provided customized guidance to clients on investment strategies across stocks, bonds, crypto, forex, and real estate
- Leveraged multilingual skills in French, Russian, and Greek to build rapport with international client base of HNWI

Quantitative Developer, EKP Consultants Inc - Boston, MA Oct 2021 – Aug 2023

- Reduced processing time by 50% vs. Excel by automating data cleaning and analysis with Pandas and Numpy in Python
- Boosted model accuracy by 30% using XGBoost (classifier and regressor) to forecast real estate market trends
- Used sklearn mutual information to assess feature importance, encompassing intricate factors in the feasibility study
- Visualized model results with Matplotlib and Seaborn, integrated into an actionable report for senior management

Director of Finance and Business Operations, A Terzidis & Co - Athens, Greece May 2018 – Apr 2022

- Achieved a 15% cost reduction through streamlined financial management, encompassing cash flow analysis, investment pricing, and financial statement analysis, facilitated by an efficient expense tracking system
- Founded collaborative manufacturing facilities in Tunisia, Morocco, Turkey, and Vietnam
- Reduced lead time by 20% through a cloud-based order tracking system, with real-time insights into order status
- Minimized downtime by deploying a linear programming manufacturing model, to track material & time requirements

Skills

Programming: Python, SQL, R, VBA Excel, Jupyter, LUA, Java, C++ **Front-End:** HTML, CSS, JS

Other software: Git, G Suite, MATLAB, Linux Server Administration, COMSOL, SolidWorks, Aspen, Polymath

Operations Management: Demand Forecasting, Six Sigma, Lean Manufacturing, JIT

Financial APIs & Software: MQL5, PortfolioVisualizer, IBKR API, ToS API

Projects

Asset Allocation Analysis - Python, SQL Nov 2023 – Present

- Determined asset weightings that maximize a portfolio's Sharpe ratio at half-Kelly allocation
- Results in lower risk and higher risk-adjusted return cf. full-Kelly (75% expected growth rate and 50% drawdown risk)
- Analyzed yfinance and FRED historical data in SQL database for future volatility, correlation, and return modeling
- Modeled the daily empirical instantaneous geometric excess returns, resembling a fat-tailed Laplace distribution

Time Series Trend Following - MQL5 (resembles C++), MetaTrader Oct 2021

- Algorithmic trading strategy using moving average crossover to capture momentum factor (potential source of alpha)
- Mitigated idiosyncratic risk by diversifying time periods in line with profitable managed futures strategies
- Leveraged trend strength, MA crossovers, and candle patterns for entry/exit, adjusting positions during consolidations
- A powerful portfolio diversification tool with a near-zero correlation to the stock market and positive expected return

Education

BS - Chemical Engineering, Rowan University - Glassboro, NJ May 2018

- Recipient of Full-Ride Merit-Based Scholarship
- Completed courses (MIT-OCW): Topics in Mathematics with Applications in Finance