DANIEL MAGRO

Port St. Lucie, FL | 201-819-7595 | dan@magro.dev | github.com/DanDo385 | linkedin.com/in/dmagro

Portfolio Website: magro.dev | *AI, agent systems, blockchain/DeFi, financial infrastructure, technical writing, and systems research*

PROFESSIONAL SUMMARY

Institutional markets professional and technical systems builder with 13 years across rates, macro trading, execution, and portfolio management. Applies deep financial-domain expertise to AI engineering, agentic tooling and orchestration, and blockchain/DeFi infrastructure, translating complex market and protocol mechanics into working systems, interactive tools, and decision-ready explanations.

TECHNICAL PROFICIENCY

Markets and Financial Infrastructure: Market structure, liquidity, settlement, portfolio management, fixed income, macro, execution, risk, DeFi protocol mechanics

AI and Agent Systems: LLM workflows, agent orchestration, tool calling, context and session management, multi-agent coordination, verification, observability, MCP

Programming and Protocol Tooling: Go, Solidity, TypeScript, Python, Foundry, Geth, EVM systems, JSON-RPC

SELECTED TECHNICAL PROJECTS

AI AND AGENT SYSTEMS

Agent Runtime | github.com/DanDo385/agent-runtime

- Interactive runtime architecture for input handling, session hydration, iterative agent loops, tool dispatch, verification, and persistence across Python and TypeScript.

Hermes X-Ray | github.com/DanDo385/hermes-xray

- Browser observability lab that makes prompt intake, reasoning flow, tool selection, iterative loops, and verification visible and inspectable.

BLOCKCHAIN, DEFI, AND ETHEREUM INFRASTRUCTURE

Rollup Mechanics Lab | github.com/DanDo385/eth-l2

- Interactive labs for optimistic fraud-proof mechanics and simplified validity verification, exposing dispute flows, bond accounting, settlement, and rollup incentives.

AMM Simulation Engine | github.com/DanDo385/eth-amm-sim

- Foundations lab for automated market maker economics, liquidity, fixed-point math, pricing, and EVM trading simulations.

Ethereum Transaction Lifecycle | github.com/DanDo385/eth-tx-lifecycle

- Full-stack visualizer tracing a transaction from broadcast through the mempool, MEV and block building, inclusion, confirmations, and finality.

PROFESSIONAL EXPERIENCE

Product and Web3 Platform Contributor | RAMM.ai | New York, NY | 03/2024 - 07/2025

- Built EVM smart contracts, the product frontend, and the public website for an early-stage Web3 marketplace.
- Served as the technical translation layer across product, contracts, partners, and users, turning complex marketplace and on-chain mechanics into product requirements, clear explanations, and external messaging.
- Presented the marketplace model and on-chain value proposition to retailers, prospective partners, and users at retail and Web3 conventions nationwide.

Independent E-Commerce Operator - Automation and Market Analysis | Self-Employed | Remote | 05/2019 - 07/2022

- Designed Python-based monitoring and execution workflows across retail platforms; analyzed secondary-market liquidity, pricing, and operational risk.
- Generated annual profits of approximately $100K, $215K, and $155K across three years through automated execution in a constrained opportunity set.

Vice President - Fixed Income Portfolio Manager | Prudential Financial (PGIM) | Newark, NJ | 04/2017 - 04/2019

- Managed global interest-rate and relative-value portfolios across U.S., Canadian, European, and Japanese markets, achieving a personal Sharpe ratio of 2.1 and contributing to multi-billion-dollar portfolio outperformance.
- Integrated market structure, liquidity, curve, relative-value, and risk analysis into portfolio construction, trade selection, and execution.

Vice President - Asian Hours Macro Execution Desk | PointState Capital | New York, NY | 05/2015 - 02/2017

- Translated portfolio-manager intent into cross-asset fixed income, FX, equity, and derivatives execution as the real-time interface with global trading desks during Asian market hours.

Vice President - Proprietary Trading | Nomura Securities | New York, NY | 03/2011 - 05/2015

- Traded global rates, FX, and equities across U.S., European, and Japanese markets, delivering positive P/L annually with a personal Sharpe ratio of 2.4 versus a desk average of approximately 1.8.

Institutional Fixed Income Sales | Merrill Lynch and Jefferies | New York, NY | 07/2006 - 02/2011

- Covered institutional interest-rate clients within senior sales pods generating approximately $45MM in annual production at Merrill Lynch and $10MM at Jefferies; translated market structure, liquidity, and rates-product mechanics for institutional clients and supported Jefferies' Primary Dealer designation process.

EDUCATION AND TECHNICAL TRAINING

B.S. Finance, Pennsylvania State University - Magna Cum Laude | Overall GPA: 3.73 | Major GPA: 3.93

Technical Training: Cyfrin Updraft | Boot.dev | Harvard CS50 | MIT OpenCourseWare

Community: Volunteer supporting new citizens with documentation and English; animal shelter volunteer; active pickleball player.