

DIEGO MONTEMAYOR

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AI Engineer & Entrepreneur / Ex-Wall Street VP / Yale Economics (Distinction)

TECHNICAL PROJECTS & PRODUCT BUILDS

Apr. 2024 – Present

Excel-Agent MCP Server (HuggingFace, LangChain, RAG)

- Engineered a Model Context Protocol (MCP) server for intelligent Excel data extraction and querying.
- Deployed Retrieval Augmented Generation (RAG) pipeline with FAISS vector stores.
- Designed hybrid extraction pipeline combining rule-based table detection with OCR fallback, implementing adaptive chunking to preserve semantic structure across boundaries.
- Enabled semantic search over structured context from unstructured sources, significantly reducing manual extraction.

Transformer-Based Portfolio Optimizer (PyTorch, Adam Optimizer, RandomForest)

- Optimized a Sharpe-maximizing portfolio allocator using transformer architecture.
- Created custom loss function to maximize risk-adjusted return with leverage penalties.
- Implemented Random Forest recursive feature elimination across training chunks to reduce dimensionality while preserving performance, enabling interpretable attribution in non-stationary time series.
- Achieved 2.6x cumulative outperformance, 25% lower maximum drawdown (relative) in simulated backtest vs equal-weight benchmark (2017-2023).

Recipe Sharing App (React Native, Node.js, MongoDB)

- Deployed a functional prototype platform for recipe sharing with authentication, search functions, and messaging.
- Implemented React Native UI with chat previews, follow features, filter and sort options, and personalized feeds.
- Streamlined Node.js backend with token auth, image handling, threaded messaging, and category-based search.

PROFESSIONAL EXPERIENCE

SIXTH STREET PARTNERS

New York, NY

Structured Credit Investor, Vice President and Associate

Jun. 2021 – Apr. 2024

- Led structuring and negotiation for 3+ CLOs financing \$1.2B+ in assets, optimizing deal structure and legal terms.
- Drove investment in CLO mezzanine, equity, and IG debt, helping grow platform AUM from \$1.3B to \$6B.
- Managed three portfolios independently while executing relative value analytics with Python and Excel.
- Spearheaded automation projects including API-driven stress-testing models and a portfolio review system, enhancing investment process efficiency end-to-end.

JP MORGAN CHASE & CO.

New York, NY

Credit Structuring Associate and Analyst

Jun. 2017 – May 2021

- Personally structured \$30B+ in CLO transactions across 60+ deals, coordinating with investors and legal counsel.
- Originated three new mandates through client relationship building and innovative structuring.
- Led financial modeling and legal negotiations for high-profile deals including OHA 5 (\$601MM) and Franklin Square's inaugural CLO.

EDUCATION

YALE UNIVERSITY

New Haven, CT

Bachelor of Arts in Economics

May 2017

- GPA: 3.8; graduated with Distinction
- Empirical Thesis: *The Impact of Economic Growth on Environmental Degradation*
- Internships: JP Morgan Markets (Summer 2016) and Fairholme Capital Management (Summer 2015)
- Co-Captain and Treasurer, Yale Skeet and Trap; Board Member, Yale Social Investment Team

ADDITIONAL INFORMATION

Machine Learning: Transformers, MCP, HuggingFace, LangChain, RAG, PyTorch, Adam Optimizer, RandomForest

Programming Languages and Frameworks: Python, TypeScript, React Native, Node.js, MongoDB

Natural Languages: English, Spanish, German (Intermediate), Japanese (Beginner) | **Citizenships:** USA, Mexico

Finance: Structured Credit, Underwriting, Market Analysis, Transaction Modeling