

Joseph Solomon

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EDUCATION

University of Southern California, Iovine and Young Academy | Marshall School of Business EG:May 2027
M.S. Integrated Design, Business and Technology | B.S. Business Administration Cumulative GPA 3.6

Awards: LavaLab Best Product Winner, USC Merit & Dean's List (6x), UCI HTCC Presenter, Grismer Scholar

PROFESSIONAL EXPERIENCE

Mariner

New York City, New York

Capital Markets Intern

May 2025 – August 2025

- Conducted multi-asset research across equities and fixed income using Bloomberg Terminal and Morningstar Direct, deploying GPT and VLM-based tooling for quantitative screening and risk-factor decomposition across 100+ portfolios, contributing to allocation strategies that realized \$500K+ in capital gains.
- Collaborated with the investment team to engineer tax-loss harvesting and rebalancing workflows across \$3B+ AUM, optimizing after-tax risk-adjusted returns through data-driven portfolio construction and compliance-aware execution.

Lattice

Los Angeles, California

Co-Founder

September 2024 – Present

- Co-founded Lattice, an AI-powered pharmaceutical patent analytics platform targeting a \$14B IP intelligence market, driving go-to-market strategy, financial modeling, and capital allocation decisions as Co-Founder while pitching to VC judges and 200+ attendees securing multiple rounds of interviews from Dorm Room Fund. Application to YC F26
- Deployed LSTM and VLM architectures to embed ~3M chemical compounds as vectors for similarity search and generative chemistry, securing 4 biopharmaceutical design partners through enterprise sales outreach and conducting unit economics and revenue modeling to validate commercial viability across target customer segments.

USC Marshall Behavioral Lab

Los Angeles, California

AI Research Assistant

December 2024 – Present

- Cleaned, transformed, and analyzed large-scale datasets ($N > 1,000$) using R, Python, and SPSS, applying multivariate regression, ANOVA, and predictive modeling to identify behavioral patterns, while evaluating LLM outputs across multi-turn reasoning tasks for RLHF to improve model accuracy across quantitative and finance-adjacent problem sets.
- Engineered a custom GPT-based LLM parser to automate data extraction, variable classification, and summary generation, reducing manual analysis time by over 3 hours across research datasets exceeding 1,000 observations.

LEADERSHIP AND INVOLVEMENT

LavaLab USC

Los Angeles, California

Technical Product Manager

August 2024 – Present

- Accepted into LavaLab, USC's premier product incubator (28 students/semester), whose alumni have raised millions in VC funding, leading cross-functional teams through a YC-based curriculum to build and pitch AI ventures to top firms.
- Pitched a full-stack AI infrastructure for Lattice including LLM/VLM model training, and business model to a panel of venture capital firms and 200+ attendees, earning both the LavaLab Best Product and Judges' Choice Awards.

180 Degrees Consulting at USC

Los Angeles, California

Co-President & Consultant

January 2024 – Present

- Selected into 180 Degrees Consulting (sub-3% acceptance rate), Conducted informational interviews with different Presidents/ CEOs of nonprofit organizations in order to create evidence based strategy recommendations for smaller nonprofit clients
- Engineered an AI-driven grant opportunity scoring model for the National Health Foundation, deploying NLP-based classification and structured criteria across 20+ national funding sources to rank and prioritize opportunities by expected value and strategic fit, directly paralleling buy-side research and portfolio construction methodologies.

BlackGen Capital USC

Los Angeles, CA

Head of Outreach & Analyst

August 2023 – Present

- Engineered a proprietary Python-based quantitative trading system deploying ensemble ML models combining gradient boosting and LSTM networks, integrating NLP-driven sentiment analysis on earnings calls and news feeds to generate alpha signals across equity and fixed income markets.
- Conducted cross-sector equity research across technology and healthcare, building DCF and comparable company models in Python and Excel, applying factor-based portfolio construction and mean-variance optimization to generate buy/sell recommendations presented to BlackGen's investment committee.

SKILLS AND INTERESTS

Technical: Python, R, Java, C++, C#, Bloomberg, FactSet, Morningstar, Tableau, SQL, Snowflake, AWS, GitHub, Gen AI, Figma, Salesforce, Amplitude, Mixpanel, Segment, Orion, Fidelity, Charles Schwab, eMoney, CAIS, Notion, Slack, Jira,

Organizations: LavaLab, 180 Degrees Consulting, Marshall Behavioral Lab, Trojan Investment Society, Blackgen Capital

Certifications: McKinsey Forward Program McKinsey and Company 2026, EMoney, Hubspot Social Media Marketing

Interests: Y2K-era music, Tottenham Hotspurs, Anime, World War II history, Zoology, Watches, and Pickup Basketball