

Jason Li

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EDUCATION

Georgia Institute of Technology B.S. in Computer Science - Intelligence and Theory Concentration, Minor in Economics	Aug 2022 – May 2026 GPA: 4.0/4.0
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Artificial Intelligence, Advanced Algos, Machine Learning, Deep Learning, Databases, Computer Organization, Probability & Statistics, Econometrics, Game Theory	

EXPERIENCE

Incoming Junior Quantitative Trader <i>Old Mission Capital</i>	Start: August 2026 <i>Chicago, IL</i>
Software Development Engineer Intern <i>Amazon - Applied AI</i>	August 2025 – November 2025 <i>Bellevue, WA</i>
<ul style="list-style-type: none">Reduced sprint planning effort by 4 hours per sprint by building an AI agent that summarized sprint planning meetings, generated and prioritized tasks, automatically created them in the sprint planning systemDeveloped an AI-driven system that automatically generated SOP 98-compliant financial reporting documents, maintaining over 85% accuracy and saving finance managers over 6 hours per monthImproved AI system uptime by 25% by building and deploying production-grade backend services on internal AWS infrastructure, supporting low-latency usage across multiple teams	
Software Development Engineer Intern <i>Citco</i>	June 2025 – August 2025 <i>Jersey City, NJ</i>
<ul style="list-style-type: none">Built a full-stack dashboard using Next.js, FastAPI, and PostgreSQL to centralize activity across 100+ repos, with dynamic filters and time-series visualizations to improve development workflow efficiency and reveal key team-level insightsImplemented real-time webhook integration with AWS Lambda and SQS to automate repository tracking, eliminating 10 hours of manual work weekly and enabling instant cross-team notifications for 100+ developersArchitected Jenkins pipelines with Docker containerization and automated testing suites, reducing deployment time from 2 hours to 15 minutes while achieving 99% deployment success rate across 20+ teams	
Software Engineering Intern <i>Georgia Tech Research Institute - CIPHER Lab</i>	June 2024 – August 2024 <i>Atlanta, GA</i>
<ul style="list-style-type: none">Developed a multilingual NLP sentiment analysis model enabling real-time public opinion tracking across 5+ languagesBuilt high-performance search platform using React and ElasticSearch with optimized indexing and enhanced backend APIs to support batching, achieving 40% faster query response times and 25% increase in multilingual task completionCreated a data analysis platform with GraphQL and Neo4j to model and visualize over 1M IP events and user interactions	

PROJECTS

Gold Price Forecasting & Regime Characterization: <i>scikit-learn, TensorFlow, yfinance</i>	
<ul style="list-style-type: none">Forecasted gold prices, achieving 12% MAPE, using macro and technical indicators with Ridge Regression and LSTM modelsCharacterized 4 market regimes (bullish, bearish, stable, volatile) through unsupervised clustering, enabling regime-specific volatility adjustments and risk-calibrated price forecasts	
Black-Scholes Monte Carlo Options Visualizer: <i>Python, Plotly, NumPy</i>	
<ul style="list-style-type: none">Built options pricing engine combining Black-Scholes models with Monte Carlo simulations using vectorized NumPy calculations for European options analysisCreated interactive dashboard with configurable parameters, dynamic visualizations, and comprehensive statistical analysis	
MLB Pitch Classification & Performance Analysis: <i>scikit-learn, HDBSCAN, pandas</i>	
<ul style="list-style-type: none">Built end-to-end pipeline to gather and classify 500K+ pitches using K-Means, HDBSCAN, GMM and validated clusters via elbow method, silhouette scores, and statistical tests (ANOVA, t-tests) to ensure cluster coherenceDeveloped multi-feature evaluation system using movement profiles, velocity, spin metrics, and xwOBA to rank performancePredicted pitcher ERA using Linear Regression and Random Forest ($R^2 = 0.41$), outperforming xFIP/SIERA baselines	

LEADERSHIP

Georgia Tech Chess Club, President	August 2023 – May 2025
<ul style="list-style-type: none">Grew the club by over 50 members to 300+ total via outreach and organizing meetings/tournaments with 100+ attendeesCaptained school's teams in online and in-person international competitions, leading GT to 2 national titles	
GTSF Investments Committee, Senior Analyst	August 2023 – May 2025
<ul style="list-style-type: none">Developed quantitative trading strategies for a \$2M+ portfolio, generating a 9% outperformance of the S&P 500Achieved 28% lower out-of-sample MSE in forecasting commodity prices by building and backtesting a SARIMA modelEngineered an automated portfolio rebalancer using Kelly Criterion to optimize asset allocation and improve Sharpe by 20%	

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript/TypeScript, R, SQL (PostgreSQL, MySQL), HTML/CSS, C
Frameworks/Libraries: NumPy, Pandas, PyTorch, TensorFlow, Scikit-learn, XGBoost, HDBSCAN, matplotlib, React, Node.js, Bootstrap, Streamlit, Plotly, HuggingFace, FastAPI
Technologies: AWS (EC2, S3, Lambda), Neo4j, GraphQL, Git, ElasticSearch, Docker, Terraform, Maven, Jenkins