

Jason Li

516-884-0528 | lijason11530@gmail.com | <https://www.linkedin.com/in/jasonli04/> | <https://github.com/jasonli04> | US Citizen

EDUCATION

Georgia Institute of Technology

Aug 2022 – May 2026

B.S. in Computer Science - Intelligence and Theory Concentration, Minor in Economics

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

Start: August 2026

Old Mission Capital

Chicago, IL

Software Development Engineer Intern

August 2025 – November 2025

Amazon - Applied AI

Bellevue, WA

- 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 system
- Developed 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 month
- Improved 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

June 2025 – August 2025

Citico

Jersey City, NJ

- 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 insights
- Implemented 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+ developers
- Architected 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

June 2024 – August 2024

Georgia Tech Research Institute - CIPHER Lab

Atlanta, GA

- Developed a multilingual NLP sentiment analysis model enabling real-time public opinion tracking across 5+ languages
- Built 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 completion
- Created 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: *scikit-learn, TensorFlow, yfinance*

- Forecasted gold prices, achieving 12% MAPE, using macro and technical indicators with Ridge Regression and LSTM models
- Characterized 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: *Python, Plotly, NumPy*

- Built options pricing engine combining Black-Scholes models with Monte Carlo simulations using vectorized NumPy calculations for European options analysis
- Created interactive dashboard with configurable parameters, dynamic visualizations, and comprehensive statistical analysis

MLB Pitch Classification & Performance Analysis: *scikit-learn, HDBSCAN, pandas*

- 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 coherence
- Developed multi-feature evaluation system using movement profiles, velocity, spin metrics, and xwOBA to rank performance
- Predicted 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

- Grew the club by over 50 members to 300+ total via outreach and organizing meetings/tournaments with 100+ attendees
- Captained 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

- Developed quantitative trading strategies for a \$2M+ portfolio, generating a 9% outperformance of the S&P 500
- Achieved 28% lower out-of-sample MSE in forecasting commodity prices by building and backtesting a SARIMA model
- Engineered 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