Andrew Ju

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Education

University of California, Los Angeles Los Angeles, CA
Bachelor of Science, Mathematics of Computation *Expected June 2029*
GPA: 3.871 / 4.0

Choate Rosemary Hall Wallingford, CT
College Preparatory *June 2025*

Technical Skills

Languages: Python, R, JavaScript, C++
Tools: Econometric Analysis, Machine Learning, Web Scraping, Statistical Modeling, Data Visualization, Excel

Professional Experiences

Shanghai Jiyu Fund Sales Co., Ltd. Shanghai, China
Financial Product Development Intern *August 2025*

- Built client-facing frontend interfaces for fund product pages, improving investor access to portfolio information and performance data.
- Conducted quantitative analysis on historical market data using Python to back test trading model assumptions across equity and fixed-income asset classes.
- Automated client onboarding content by building web scraping pipelines to generate AI driven introductory videos, streamlining the sales workflow.

AdaptiConnect
Co-Founder & Leader *June 2023 – September 2024*

- Led cross-functional team through full product lifecycle, managing resource allocation, stakeholder engagement, and development timelines.
- Directed user research and outreach, synthesizing qualitative feedback to inform product decisions under resource constraints.
- Recruited and onboarded two new members, expanding technical capacity and accelerating development.

Research & Projects

Fudan-Stanford Institute for China Financial Technology and Risk Analytics (FS-CFTRA) Shanghai, China
Research Assistant *January 2023 – January 2025*

- Conducted econometric analysis of how digital transformation reshaped employment and talent flows in China's securities industry under Professor Qingfu Liu.
- Co-authored *Bridging the Gap: Digital Transformation and Talent Flow in China's Securities Market*, accepted at the 36th AsianFA Annual Conference.

Stock Prediction Engine – Python, scikit-learn, XGBoost

- Built an ML ensemble (Gradient Boosting, Random Forest, XGBoost) that predicts daily stock price direction across 12 data source categories including FRED macro, FinBERT sentiment, and fundamental valuations
- Implemented magnitude-weighted training, Platt-scaled probability calibration, and confidence-proportional position sizing to optimize for risk-adjusted alpha over buy-and-hold
- Designed a self-improving pipeline: automated prediction logging, resolution against market outcomes, and model retraining with walk-forward backtesting validation

Retail-Edge Market Screener – Python, pandas, yfinance, Streamlit

- Engineered a daily pipeline that screens 4,300+ US equities through 10 signal families (volume anomaly, sector rotation, insider activity, earnings quality, etc.) with regime-aware composite scoring calibrated from a 2-year, 3,654-observation backtest
- Built a self-improvement loop: prediction tracker logs forward returns, Bayesian optimizer blends weights with live performance, GradientBoosting classifier learns non-linear signal interactions
- Automated end-to-end via launchd with paper trading simulation, email digests, and a Streamlit dashboard for real-time monitoring

Leadership Experiences

Learn2Program
Co-Leader *September 2023 – September 2024*

- Partnered with Chinese schools to distribute free coding education, and launched the R programming branch producing data analysis instructional content.

Achievements & Interests

VEX Robotics World Championship 2024 – Gold Award May 2024

- Engineered key robot subsystems and contributed to a 1st-place finish among 300+ teams at the VEX Asian Open.

Interests: Water polo (High School Varsity, Winger), Tennis, Trombone, Soccer, Poker (2x dorm champion), Magic: The Gathering