# Timothy Alexander Zhu

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## EDUCATION

**UNIVERSITY OF CALIFORNIA, LOS ANGELES – ANDERSON SCHOOL OF MANAGEMENT** **Los Angeles, CA**
***Master of Financial Engineering (MFE)*** *Expected Dec 2027*
- Class President, elected by the 63-student MFE cohort

**UNIVERSITY OF CALIFORNIA, LOS ANGELES** **Los Angeles, CA**
***B.A. in Economics, Minor in Statistics & Data Science*** *Jun 2026*
- Relevant Coursework: Multivariable Calculus, Linear Algebra, Probability, Statistical Inference & Analysis, Data Analysis & Regression, Machine Learning & Optimization, Micro/Macroeconomic Theory, Econometrics, Statistics, Financial Accounting, Game Theory, Finance & Investments, Data Science for Economists, Pricing & Strategy

## SKILLS

- **Computer:** Microsoft Office Suite (Excel, PowerPoint), R Studio, Google Office Suite, Python, SQL
- **Language:** Native proficiency in English & Chinese, Conversational proficiency in French, Basic Proficiency in Spanish & Russian

## PROFESSIONAL EXPERIENCE

**UBS** **Remote**
***Quantitative Research Intern*** *Aug 2025 - Nov 2025*
- Developed an equity exotics option valuation and risk toolkit in Python/R/Excel, combining Black–Scholes replication and Monte Carlo validation to generate PV, full Greeks, and scenario/stress ladders for desk and risk review
- Engineered an intraday volatility-surface recalibration pipeline in Python using non-linear least-squares refits every 2 hours, with automated scheduling, residual diagnostics, and time-stamped audit logs for governance
- Improved model accuracy and workflow efficiency; on a one-month test set, reduced pricing discrepancies and accelerated sensitivity production; outputs were adopted into daily desk reporting to explain risk moves via documented surface shifts

**IGNITE CAPITAL** **Beverly Hills, CA**
***Financial Software Engineer*** *Jun 2025 - Aug 2025*
- Spearheaded outbound calling and sourced new private-bank clients; managed relationships from first contact through onboarding
- Leveraged SQL to track pipeline performance (conversion, stage aging, time-to-close) and target outreach to high-probability prospects
- Integrated CRM workflows (light APIs/webhooks) to streamline lead intake, follow-ups, and deal reporting

**JPMORGAN CHASE** **Hong Kong**
***Investment Banking Research Intern*** *Aug 2024 - Nov 2024*
- Delivered 2 weekly reports on blue-chip tech companies, analyzing financial statements, valuations, and key performance metrics to provide a current and longer term view on the broader industry
- Conducted research and analysis on big tech and AI companies in US and Chinese markets, providing investment recommendations, with potential risks identified, for both short-term and long-term investors
- Developed insights on market trends and landscape for Artificial Intelligence (AI), Big Tech, and Cloud Computing, supporting multiple buy initiations

**GUOLIAN SECURITIES** **Shanghai**
***Wealth Management Intern*** *Jun 2024 - Aug 2024*
- Researched the AI, technology, and real estate markets in China, examining how restrictions and regulations imposed by the Chinese government impact stock trading in these markets
- Built analyses to support investment recommendations to clients and attended meetings with clients discussing their portfolios and how they should invest and manage risk in case of Chinese economic downturn
- Learned how ETFs, real estate, and bonds can be used to enhance an investment portfolio

## ACTIVITIES & LEADERSHIP

**VAULTO AI** **Los Angeles, CA**
***CFO*** *Aug 2025 - Present*
- Established Vaulto's FP&A foundation by building the first driver-based budget and burn/runway model, as well as by setting a weekly KPI reporting cadence to support planning and investor diligence
- Developed the monetization and unit-economics framework (pricing hypotheses, fee sensitivity, CAC/LTV assumptions, funnel/cohort metrics) to guide go-to-market experiments

**KAPPA SIGMA** **Los Angeles, CA**
***Social Chair*** *Sep 2022 - Sep 2024*
- Led team of 70+ students and organized weekly schoolwide social events averaging 1,200+ attendees
- Raised over $15,000 for local charities around West Los Angeles through planning fundraising initiatives

**YOUTH 2 YOUTH MARKETING (START-UP)** **Toronto, Canada**
***Founder*** *Nov 2018 - Dec 2022*
- Achieved a profit of $30,000 by connecting young influencers with affiliated product brands
- Led a digital marketing campaign and improved marketing platforms, utilizing analytics programs to refine strategies and enhance online engagement

## ADDITIONAL INFORMATION

- MVP Award at CCM U18 Beijing International Hockey Invitational (Team Canada) (Substitute for USA) / Division II Hockey
- *Interests:* Hockey, Golf, Snowboarding, Weightlifting, Diet Soda, Biking, Music Production and Mixing, Running, Automotive Engineering and Motorsports, Cooking