

# Floyd Korzan

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## EDUCATION

### Columbia University, School of Engineering and Applied Science

B.S., Operations Research and Financial Engineering

New York City, NY

Expected May 2029

**Relevant Coursework:** Multivariable Calculus, Linear Algebra, Python, Economics

**Honors:** Gates Scholar; QuestBridge Scholar; Horatio Alger National Scholar; Elks MVS; Wells Fargo APIA Scholar

**Pre-Columbia:** Mitchell High School, Valedictorian (1/230), 4.00 GPA; Chess Club Founder; Cross Country/Track Captain; All-State Cross Country & Track

## EXPERIENCE

### Zhuo Yue Lab

Founder & CEO

Dec 2025 - Present

- Bootstrapped a research-products e-commerce business to \$200,000 in cumulative revenue across about 1,200 orders.
- Built the platform as sole developer using TypeScript, React, Supabase and Cloudflare; integrated Stripe, Square, Shippo and Resend for payments, shipping and transactional email.
- Led supplier coordination, inventory, fulfillment, affiliate operations and customer support; grew a 1,000+ member community and developed internal order-management and analytics tools.

### Perplexity

Campus Partner (Contract)

New York City, NY

Sep 2025 - Dec 2025

- Managed 2 student interns across 5 campus campaigns promoting Perplexity and Comet at Columbia and Barnard.
- Coordinated peer outreach, product education and QR-code campaigns to support student adoption.

### AfterHour, Inc.

Marketing Intern

Remote

Aug 2025 - Sep 2025

- Produced about 20 short-form videos for TikTok and Instagram explaining options, earnings and macroeconomics.
- Supported product testing and launch marketing for Alpha, an AI financial assistant.

## RESEARCH & PROJECTS

### Adversarial Proof Engineering for the P versus NP Problem:

#### Audited Lemmas, Counterexamples, and an Explicit Research Frontier

Independent Research Manuscript

Aug 2026

- Analyzed 11 proof routes in a 17-page manuscript, deriving conditional SAT algorithms and explicit infinite counterexamples while separating proved, conditional and open claims.
- Enumerated finite circuits with Python and used NumPy/SciPy for certificate discovery; verified a rational certificate against 6,794 Boolean distinguishers using exact-integer arithmetic.

### Evaluation of a Dual-Cadence Equity Rotation Strategy

Korzan Quantitative Strategies | Research Manuscript

Jul 2026

- Evaluated an eight-sleeve equity/Treasury rotation strategy with next-open execution, whole-share sizing, transaction costs, cash reserves and liquidity constraints.
- Applied factor regressions, block bootstrap, Deflated Sharpe and stress tests; documented survivorship bias and signal discrepancies between data providers.

### PepPlanner

Founder & Developer

pepplanner.org

Jun 2026 - Present

- Developed a peptide-calculation and scheduling platform with concentration and unit conversions, recurring schedules, reminders and calendar exports.
- Added educational PepAI, catalog integration and premium features for saved chats, schedules and PDF exports.

## SKILLS

**Programming:** Python, TypeScript/JavaScript, React, Next.js, Node.js, HTML/CSS, SQL/PostgreSQL, Git/GitHub

**Platforms:** Supabase, Cloudflare, Stripe, Square, Shippo, Resend, API integrations

**Research & AI:** NumPy, SciPy, statistical modeling, backtesting, portfolio risk, LLM integration, LaTeX