

Hayden Bradley

Current Address:

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Permanent Address:

151 N Balsamina Way
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EDUCATION

University of Michigan

Ann Arbor, MI

Degree: Bachelor of Science

May 2025

Majors: Mathematics, Physics

GPA: 3.7/4.0

Coursework: Financial Mathematics, Financial Data Analysis, Multivariable/Vector Calculus, Electromagnetism, Probability Theory, Linear Algebra, Programming and Data Structures, Economics of Financial Markets, Advanced Calculus

Skills: C++, SQL, Python, SAS, Tableau, Microsoft Office (Excel, Word, PowerPoint)

Study Abroad: Studied mathematics at the University College of London during spring 2024 semester

PROFESSIONAL EXPERIENCE

Capital One

Dallas, TX

Business Analytics Intern – Navigator Platform Strategy

June 2024 - August 2024

- Developed a regression churn model to enable proactive client management, projected to retain \$780k in annual revenue
- Won the Intern Innovation Award (1 of 250 interns) for developing an automated scheduling system for client managers
- Performed outcome-based statistical analysis and client-facing interviews to revamp client manager KPIs, enhancing rigor of existing metrics and introducing three novel data-driven performance indicators

DiiVe

Remote

Strategy Consulting Intern – Solution Development Lead

June 2023 - August 2023

- Constructed a comprehensive market-sizing model in Excel to estimate the size of the US luxury apparel industry, revealing a \$2 million expansion opportunity for client by benchmarking against comparable businesses
- Researched competition, pricing, marketing, and shipping to develop market entry strategy into key US metropolitan areas
- Led workshop for 30 interns, synthesizing insights from top consulting firms on progress tracking and quantitative milestones

KJ's Cafe

Los Altos, CA

Operations Intern

June 2022 - August 2022

- Analyzed sales data to optimize inventory management, promotions, and pricing, projected to increase profitability by ~20%
- Spearheaded on-campus and social media advertising campaign, driving an 11% month-over-month customer increase

EXTRACURRICULAR ACTIVITIES

Equity Trader

Personal Portfolio

June 2022 - Present

- Created semi-automated trading algorithm that achieved an 58% win rate by exploiting short-term order flow imbalances
- Researched and implemented multi-day short trading strategy to systematically capitalize on high momentum small cap stocks diverging from their intrinsic value: returned annualized 18% during first half of 2024
- CME Trading Challenge: Placed 21st PnL of 4000+ traders by utilizing intraday mean reversion strategy in weeklong contest

Cantor Trading Club

Ann Arbor, MI

Selected Member

January 2023 - Present

- Leveraged Black-Scholes pricing model and SAS programming to analyze historical option data; designed strategic investment recommendations to target options with overvalued implied volatility around earnings announcements
- Designed and analyzed efficacy of factor-based long-short trading strategies to capitalize on market inefficiencies
- Developed optimal investment sizing tool to enhance the sophistication of Kelley Criterion using Monte Carlo in Python

Delta Chi Fraternity

Ann Arbor, MI

Brotherhood Chair

January 2022 - Present

- Synthesized and presented insights on the psychology of motivation and productivity to 100+ active members every month
- Created attendance initiative and tracking system to incentivize participation at events: increased average attendance by 15%

INTERESTS

Texas Hold-Em Tournaments | Chess Games In The Park | *The Man Who Solved The Markets* | Pick-Up Basketball