

Aditya Dhanraj

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science

May 2027

- SAT: 1580
- Coursework: Data Structures, Multivariable Calculus, Linear Algebra, Intro to Prob. & Statistics, Microeconomics
- Student Organizations: University Finance Association, UTexas Energy, Machine Learning & Data Science

EXPERIENCE

Investment Associate & Generalist Industry Head

Sept. 2024 – Present

University Finance Association — Accounting, Valuation Modeling, Excel, Market Research

Austin, TX

- Mentoring three analysts by providing guidance on accounting principles, valuation techniques, and market dynamics
- Leading the Generalist Industry Group in analyzing multiple sectors simultaneously and building stock pitches with DCF models and comparative sector analysis
- Selected as the sole first-year student for the 2024-2025 Investment Associates Program

Equity Research Analyst Intern

Oct. 2024 – Dec. 2024

Westlake Securities — Valuation Modeling, Excel, Market Research

Austin, TX

- Developed in-depth equity research reports while collaborating with the Westlake Securities investment banking team
- Constructed and assessed company valuations and comprehensive market and industry analyses incorporating both domestic and global economic factors

Executive Board Member & Head of Press

July 2023 – Aug. 2024

Computer Science Youth of America — Event Coordination, Public Relations

Remote

- Supplied free Computer Science education to over 950 students and helped build a research program
- Coordinated hackathons with hundreds of participants and accumulated over \$285,000 in sponsorships

Computational Fluid Dynamics Researcher

June 2023 – Oct. 2023

University of North Texas (UNT) — ANSYS Fluent, AutoCAD, Finite Element Analysis

Denton, TX

- Leveraged ANSYS Fluent software to model 3D geometries, simulate fluid flow scenarios, and analyze multiphysics phenomena (e.g., pressure distributions, heat transfer, turbulence) alongside Dr. Hamid Sadat of UNT

PROJECTS

Financial Market Monitor — Market Research, Equities

Sept. 2024 – Present

- Composing comprehensive, periodic market reports that cover domestic and international economic conditions, including key financial data, earnings reports, geopolitical events, and significant mergers/acquisitions
- <https://financialmarketmonitor.github.io/>

Algorithmic Trading Bot — Python, PineScript, Statistics, Equities, Forex, Crypto

Oct. 2024 – Dec. 2024

- Constructed a mid-frequency indicator-based strategy that, through backtesting:
 - * Yielded a 32.59% return on XAU/USD (1 Hour) from Jan 4, 2024 to Dec 27, 2024, outperformed its buy-and-hold return by 4.52%, and delivered a Sharpe ratio of 0.952 and a Sortino ratio of 6.69
 - * Achieved a 57.26% win rate, 1.824 profit factor, and a maximum drawdown of 5.84%
- Utilized TradingView's Pine Script features to refine and backtest the strategy, built the program in Python, and explored other strategy ideas (e.g., momentum exploitation, shorting IV, pairs-based mean reversion, etc.)

SKILLS & INTERESTS

Finance: Trading, Equities, Derivatives, Valuation Modeling, Accounting, Excel, Market Research

Computer Science: Java, Python, OOP, NumPy, Pandas, Eclipse, PyCharm, AI / ML

Mathematics: Regression & Time-Series Analysis, Regime Modeling, Linear Algebra, Stochastic Processes, Statistics

Other: Spanish, Hindi, Football (12 Years), Piano (12 Years), ANSYS Fluent, AutoCAD, Poker