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

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, Statistics, Market Research
CS & Data Science: Java, Python, OOP, NumPy, Pandas, Eclipse, PyCharm
Other: Spanish, Hindi, Football (12 Years), Piano (12 Years), AI / ML, ANSYS Fluent, AutoCAD, Poker