Aditya Dhanraj

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EDUCATION

University of Texas at Austin — Austin, TX

Bachelor of Science in Computer Science — *May 2028*

- SAT: 1580 | Walnut Grove High School's Inaugural Salutatorian (4.0 GPA)
- UFA (Investment Associate), UTexas Energy (Commodities Prep Member), ML & Data Science, UTPC, ACM, ABSA
- Prob. & Stats., LinAlg, Multivariable & Vector Calculus, Microeconomics, Software Engineering, Cloud Computing

2025 INVITE-ONLY EARLY TALENT & INSIGHT PROGRAMS

- **Citadel** – The Fixed Income & Macro Challenge (NY)
- **Walmart** – Spring Sophomore Summit: SWE II Intern (AR)
- **Susquehanna Intl. Group** – First-Year Discovery Day
- **Point72** – Academy Spring Sessions
- **Goldman Sachs** – Virtual Insight Series
- **UBS** – Tomorrow's Talent Equity Research Insights Day (NY)
- **ServiceNow** – Discover Program – Engineering (CA)
- **Bain & Co.** – Consulting Kickstart
- **J.P. Morgan** – Virtual Freshman Focus
- **Stout** – Future Leaders in Finance

EXPERIENCE

Founding Engineer — July 2025 – Present

Xsauce Inc. — Node.js, TypeScript, Python, AWS, Docker, Redis, DynamoDB, Express, Prometheus — *Remote*

- Leading backend development and infrastructure for Wage, a pre-launch gaming platform expanding market access for younger generations, including REST API design, microservice and pipeline management, and core product features

Investment Associate — Sept. 2024 – Oct. 2025

University Finance Association — Market Research, Equities, Valuation, Accounting, Excel — *Austin, TX*

- Directed the Generalist Industry Group in following market developments and building stock pitches, while also mentoring three junior analysts and providing guidance on financial modeling, accounting, and valuation principles

Undergraduate Research Assistant — Jan. 2025 – July 2025

UT Austin — Python, Statistical Modeling, NumPy, Pandas, Time-Series, Bloomberg Terminal — *Austin, TX*

- Analyzed daily time-series data for over 80 indices, developed a VIX Term Structure, and built a commodities forecasting model in Python to forecast price movements and model market volatility alongside Dr. Travis Johnson

Equity Research Analyst Intern — Oct. 2024 – Dec. 2024

Westlake Securities — Market Research, Equities, Valuation, Accounting, Excel — *Austin, TX*

- Produced in-depth equity research reports on Walmart (WMT) and Atmos Energy (ATO), including company valuations and detailed market and industry analyses, alongside Westlake Securities' investment banking team

PROJECTS

Financial Market Monitor — *Market Research, Macro, Equities, Fixed Income, Forex* — Sept. 2024 – Present

- Composing periodic market reports on global economic conditions, earnings reports, significant mergers/acquisitions, etc. for over 600 readers, including college students and finance professionals, worldwide

EchoAlpha — *Python, NumPy, Pandas, NLTK, BeautifulSoup, Market Research, Equities* — July 2025 – Aug. 2025

- Constructed a systematic trading pipeline to parse inconsistent SEC 10-Q filings using BeautifulSoup, extract NLP-based sentiment from MD&A sections with VADER, and refine classification via polarity ratios and risk proxies
- Backtested contrarian long/short equity signals with configurable entry lags, holding periods, and transaction cost assumptions (current configurations yield Sharpe ratios up to 0.51 and 67% win rate)

MacroDynamiX — *Python, ML, Statistical Modeling, Time-Series, Macro, Market Research* — Apr. 2025 – Sept. 2025

- Engineered a modular data pipeline to process 120+ monthly macro indicators (1959 - Present) from FRED
- Developed a regime classification framework to model asset allocation under distinct macro environments and a stacked ensemble regression model to forecast S&P 500 monthly returns (up to 78% R^2, 87.7% directional accuracy)

SKILLS & INTERESTS

Finance: Market Research, Macro, Trading, Equities, Valuation, Fixed Income, Commodities, Options, Bloomberg

Computer Science: Python, R, C, Machine Learning, NLP, NumPy, Pandas, PySpark, TensorFlow, Hadoop, SKLearn, XGBoost, CatBoost, Random Forest, Java, TypeScript, AWS, DynamoDB, Docker, Linux, Mathematica, BeautifulSoup

Mathematics: Time-Series Analysis, Statistical Modeling, Probability & Statistics, Linear Algebra, Stochastic Processes

Other: Spanish, Hindi, Piano (15 Years, 5× National Winner), Football (15 Years), Poker, Chess, ANSYS, AutoCAD