

Alok Das

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EDUCATION

Purdue University, Daniels School of Business

Bachelor of Science, Major in Finance, Minor in Statistics and Mathematics

West Lafayette, IN

May 2026

PROFESSIONAL EXPERIENCE

NEW EIC

Quantitative Developer Intern

January 2024 – Present

- Spearheaded the creation and refinement of innovative algorithmic trading strategies, achieving an optimal balance between maximizing returns and minimizing risk exposure.
- Designed and implemented a web scraper that reduced the time taken to retrieve keyword-specific data from Twitter by over 90%.
- Trained Long Short-Term Memory (LSTM) networks to analyze and derive valuable insights from a dataset comprising over 1.6 million data points across more than 3,000 stocks.
- Developed the architectural framework for a cointegration-based trading strategy, integrating over 20 stocks and ETFs, and leveraging long-term historical data to optimize short term trading decisions.
- Incorporated a random forest model into a pre-established framework for predictive analysis of pharmaceutical company data.

Four Factor Capital

Chicago, IL

Private Equity Intern

August 2023 – December 2023

- Constructed lists of potential acquisition targets given a set of market and financial constraints.
- Analyzed financial statements for \$5M+ revenue generating companies to find favorable opportunities.
- Acted as an intermediary between brokers and investors to acquire profiles from over 50+ companies.
- Created valuation analyses and drafted IOIs for acquisition targets.
- Developed comprehensive financial models to evaluate key business segments of potential acquisition targets.

CME Group

Chicago, IL

Pricing Intern

May 2023 – December 2023

- Automated existing data filtering processes and replicated data visualization techniques in Excel using Python increasing efficiency by up to 99%.
- Designed and developed efficient web applications utilizing Flask and Python to streamline the chart/graph creation process for enhanced productivity and seamless data visualization by 99%.
- Utilized Seaborn, Pandas and Plotly to create informative heatmaps and graphs, enhancing the internal data visualization of individual contract performance.
- Implemented a batch processing approach for executing SQL queries with millions of rows, intelligently. Generating CSV files, significantly reducing data access time, and optimizing overall performance by over 99%.

PERSONAL PROJECTS

- Created a Python script to analyze intraday stock data to determine favorable investment opportunities for my own personal investment portfolio
- Combined Amazon Web Services resources with Node.js to setup an HTML page with a functional backend

RELEVANT COURSEWORK

- Probability, Linear Algebra, Multivariable Calculus, Proof through Real Analysis, Stochastic Processes, Financial Mathematics, Arbitrage-Free Pricing of Financial Derivatives(AU)

RELEVANT SKILLS

- Technical Skills: Python (TensorFlow, Pandas, Flask, NumPy, Selenium), Git, Vim