ANISH RANJAN

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SUMMARY

Accomplished finance professional with specialization in Quantitative Portfolio Management and FinTech. Proficient in Python, SQL, and MATLAB, using advanced programming to optimize financial strategies and asset valuation. Experienced in trading, financial analysis, and leading data-driven projects to enhance operational efficiencies in dynamic financial environments.

EDUCATION

Illinois Institute of Technology, Chicago, IL   Expected May 2026
Master of Science in Financial Mathematics, 4.0/4.0
● Concentration in Quant Portfolio Management and Financial Technology

Illinois Institute of Technology, Chicago, IL   August 2020 - December 2023
Bachelor of Science in Mechanical Engineering, 3.7/4.0

EXPERIENCE

Intern, IT And Risk Management
Dorman Trading - MIAX, Chicago, IL   May 2024 - Present
● Developed an automated system using Trading Technologies (TT) REST API-Python to convert and upload daily position data from back-office terminology to TT terminology, which was instrumental in onboarding numerous institutional clients and was the key driver behind a significant surge in revenue.
● Implemented a system to archive personally identifiable information (PII) from a third-party LASERVAULT. Utilized SQL to migrate all necessary data, enabling the discontinuation of LASERVAULT services and resulting in monthly operational cost saving of $5,000.

LeadGenPro   January 2024 - May 2024
● Engineered 'LeadGenPro,' a cutting-edge B2B lead generation tool that leverages advanced machine learning algorithms to customize and automate cold email campaigns, significantly expanding business networks.

Lead Technological Strategist & Buy-Side Analyst
ENO Succession, Chicago, IL   September 2023 - December 2023
● Develop and implement Python web scrapers, parsing diverse websites and directories to identify investment leads, and automate a robust dataset consisting of upwards of 10,000 potential leads.
● Conduct in-depth buy-side analysis of shortlisted companies, evaluating potential investment targets.

Mechanical Operations Intern
AMTRAK, Chicago, IL   May 2023 - August 2023
● Revamped AMTRAK's train repair protocols, reducing downtime by 12% and slashing operational expenses by 10% through strategic budget reallocation and maintenance optimization with Mechanical Superintendents.

Mechanical Test Engineer
HYDRO Inc., Chicago, IL   January 2023 - May 2023
● Engineered innovative ultrasonic and vibration-dampening mounts for overhung pumps, slashing testing turnaround by 20% and enhancing performance across Nuclear, Pipeline, and Oil & Gas sectors.

SKILLS

Programming Languages: Python, SQL, EXCEL, MATLAB, R, Java, C
Quantitative Finance: Black-Scholes, Binomial Option Pricing, Put-Call Parity, Martingales, Options & Derivatives, Monte Carlo Simulation, Portfolio Theory & Optimization, Pricing & Hedging, Stochastic Calculus, Computational Finance
Financial Risk: VaR, ES, Duration, Convexity, Greeks (Delta, Gamma, Rho, Theta, Vega), PD/LGD/EAD, CECL, Backtesting
Market Tools: Bloomberg Terminal, Yahoo Finance, S&P Capital IQ, Thomson Reuters, Morningstar Direct
Time Series Models: AR, MA, ARIMA, SARIMAX, ARCH, GARCH, EWMA, ADF Test, KPSS Test, ACF, PACF
Machine Learning: Logistic & Linear Regression, Decision Tree, Random Forest, SVM, Gradient Boosting, KNN
Libraries: NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-learn, Keras, TensorFlow, yfinance, QuantLib