NITIN MADAGI

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PROFESSIONAL EXPERIENCE

Liberty & Freedom Legal Group – Finance/Accountant Associate (Manhattan, NY) **Feb 2024 – Feb 2025**

- Partnered with the CEO to drive strategic restructuring, identifying high-margin opportunities that boosted company profits by 30%.
- Executed interest rate hedging strategies for donor-advised fund investments, mitigating portfolio volatility and preserving fund value amid rate fluctuations, improving long-term grantmaking stability.
- Independently administered nearly $15 million in funds, optimizing financial processes and ensuring full compliance with regulations.
- Engineered financial models to forecast company performance, assisting senior leadership in making well-informed decisions.
- Automated donor fund risk reporting using Python and Excel, reducing report preparation time by 70%.
- Monitored financial and investment risks across donor-advised fund portfolios totaling $30M+, ensuring alignment with organizational risk tolerance and IRS compliance guidelines.

Subhas Patil & Co. – Financial Analyst (Vijayapura, India) **Apr 2021 – Aug 2022**

- Performed daily risk assessments on client portfolios totaling $20M+ AUM, monitoring exposure to credit, interest rate, and market risk.
- Developed Value-at-Risk (VaR) models and stress testing frameworks, improving risk scenario coverage by 40%.
- Prepared weekly risk dashboards and exposure summaries for investment committee meetings, facilitating timely decision-making.
- Automated detection of anomalies in financial exposure data using Python and machine learning, streamlining FX risk review processes and reducing manual effort by over 80%.

Cognizant Technology Solutions Corp (Bangalore, India)

Senior Systems Engineer (Quant Risk Support Team) **Sept 2018 – Jan 2021**

- Collaborated with quantitative analysts to translate model requirements into high-performance compute environments, ensuring optimal resource allocation and uptime.
- Developed secure ETL pipelines to ingest and process market, trade, and counterparty data for quantitative analysis, improving data delivery speed by 30%.
- Partnered with Risk teams to build Python-based risk models, reducing deployment time from 3 weeks to 3 days using CI/CD pipelines.
- Integrated quantitative models with front-office systems and downstream reporting platforms using RESTful APIs and Kafka, ensuring seamless data exchange.

Systems Engineer (Quant Risk Support Team) **Sept 2017 – Aug 2018**

- Supported stress testing and scenario analysis models by optimizing data ingestion and compute workflows, cutting risk calculation runtimes from 8 hours to under 3 hours.
- Implemented automated monitoring and alerting scripts for model execution failures, enabling real-time issue detection.
- Documented deployment pipelines, system architecture, and support procedures, improving knowledge transfer and reducing onboarding time for new engineers by 50%.
- Collaborated with quantitative risk teams to containerize and deploy 15+ risk models across dev/test/prod environments, reducing deployment errors by 90%.

SKILLS

Core Finance Skills: Portfolio Risk Management, Risk Modeling, Risk Reporting & Presentation, Hedging Strategies, Liquidity Risk Management, Financial Derivatives, Statistical Analysis, Credit Risk Assessment, Scenario Analysis & Stress Testing

AI & Machine Learning Tools: TensorFlow, PyTorch, SciKit-Learn, Matplotlib, Neural Networks (LSTM, Transformers), Recurrent Neural Networks (RNNs), Short Term Memory Networks (LSTM), Artificial Neural Networks (ANNs)

Tools: Tableau, PeopleSoft Financial, Power BI, Essbase, Yield Book, MS Excel, PowerPoint, Alteryx, Hyperion, QuickBooks

Programming Languages: Python, R, SQL, MATLAB

EDUCATION

Master of Science in Financial Mathematics (Financial Risk Management Track) **Aug 2022 – Jan 2024**
University at Buffalo, The State University of New York, NY(STEM)

Bachelor of Engineering in Electronics & Communications **Jun 2012 – Sep 2016**
Sri Siddhartha Institute of Technology, Tumkur, India

LICENSES & CERTIFICATIONS

- Financial Risk Manager Part 1 (Exam date – 11/11/2025)
- Quantitative Risk Management in Python – DataCamp (Nov 2023)
- Securities Industry Essentials (FINRA-SIE) (Sep 2024)