

SHYAM IYER

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EDUCATION

Expected 12/24	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• <i>Expected Coursework:</i> time series analysis, scientific computing, risk and portfolio management, dynamic asset pricing, algorithmic trading, equity derivatives	New York, NY
07/19 - 05/23	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY B.Tech. in Engineering Physics and Minor in Computer Science and Engineering <ul style="list-style-type: none">• <i>Coursework:</i> multivariate calculus, stochastic calculus, nonlinear dynamics, linear algebra, probability, statistics, machine learning, modeling and simulation	Mumbai, India

EXPERIENCE

06/23 - 08/23	TATA INDUSTRIES LTD. Investment Analyst Intern (Excel) <ul style="list-style-type: none">• Designed hub-and-spoke plant framework for rapid extraction and fermentation of sweet sorghum bioethanol, thereby boosting ROI projection on existing financial models• Evaluated investments and incubator opportunities globally via research and financial analysis• Presented reports to senior executives, which contributed to strategic decision-making	Mumbai, India
05/22 - 07/22	BARCLAYS INVESTMENT BANK Analyst Intern - Electronic Trading (Python) <ul style="list-style-type: none">• Demonstrated price improvement of up to 100 bps on liquidity seeking trades by backtesting novel short term price prediction models using SciPy and Pandas• Enhanced client profiling on LX Darkpool by augmenting internal reports with 30+ trend visualizations using PySpark and SQL on Hadoop clusters• Gained financial knowledge by communicating with teams across verticals	Mumbai, India
06/21 - 04/22	QUHU PVT. LTD. Software Intern - Backend (Spring Java, SQL) <ul style="list-style-type: none">• Developed backend REST API infrastructure using Spring Java for Android application• Incorporated end-to-end user and post-management service for blocking and reporting content• Streamlined maintenance and accelerated queries by migrating databases to Amazon RDS	Delhi, India (Remote)

PROJECTS

04/23 - 05/23	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY Monte-Carlo Method Simulation of the Ising Model (FORTRAN) <ul style="list-style-type: none">• Used Metropolis algorithm for Monte-Carlo simulation of Ising model in FORTRAN• Plotted magnetization and specific heat of model system via GNUPLOT for data analysis	Mumbai, India
11/20 - 12/20	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY Analysis of Underlying Event Data in ROOT (C++, ROOT) <ul style="list-style-type: none">• Analyzed underlying event characteristics in p-p collisions using Monte-Carlo data in ROOT• Computed and plotted histograms of rapidity, pseudo-rapidity and transverse momentum	Mumbai, India

COMPUTATIONAL SKILLS / OTHER

Programming Languages: C++, Python, Java, SQL, MATLAB, FORTRAN

Languages: English (fluent), Hindi (fluent), Tamil (native)

Activities: Statistical Physics and Introductory Biology Teaching Assistant, College Quiz Club Head