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Dear Hiring Manager,

I am writing to express my sincere interest in Firm Risk Management Summer Analyst Program - Quantitative Risk which Morgan Stanley offers. I am currently a third year Ph.D. student in Industrial Engineering at Texas A&M University, College Station from which I will graduate in May 2023.

I have 2+ years of experience in operations research, advanced statistics, and time series analysis. I completed advanced analytics projects in statistical forecasting & time series, Markov chain simulation, route planning via mixed integer linear programming, clustering analysis, and line search for nonlinear programming using C++ and R which can be seen at my GitHub page. I am also capable to implement advanced mathematical and statistics methods in python such as deep learning via TensorFlow, reinforcement learning via RLlib and optimization via GUROBI.

I took various optimization, statistics, and data science courses both in bachelor and doctorate level. I have various certificates in big data analytics which can be seen in my CV. For financial and economics knowledge side, I took "Introduction to Finance", "Money & Banking and Gov. Policy" and "Industrial Organization" courses when I was an exchange student at McGill University. Lastly, I am currently learning quantum computing via IBM Qiskit resources. Also, I am in the process of obtaining the certificate titled "IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X" which is currently only available certificate on quantum computing.

I am applying this position due to various reasons. Firstly, it captures my skillset; therefore, the job will be something which I can perform confidently. Also, I can bring some expertise in reinforcement learning and quantum computing which could be beneficial in short-to- long term to the firm. Secondly, Morgan Stanley has smart and capable employees at all levels. Thus, I expect to perform in a stimulating and productive work environment. Finally, Morgan Stanley was resilient during Great Recession of 2008 and Covid-19 pandemic. This indicates a collaborative culture which is a trait I seek from the company I work at.

Thank you for offering such a wonderful opportunity. I would welcome the opportunity to apply my skills and experience. I am grateful for your review and consideration of my application. I look forward to your response at your earliest convenience.

Yours Faithfully,

Furkan Sezer