**Eric Zeng**

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**Quantitative Research Analyst- Point 72**

Dear recruiting manager,  
  
I hope that all goes with you and the team. I am drawn to the Quantitative Research Analyst position and Point 72 for my interest in the cross of technology and finance.

My determination to pursuing quantitative roles as my career specifically in the financial industry comes from an internship when I was at NYU, as a data scientist in King Street Capital Management (hedge fund). In King Street, I finished a machine learning model to predict the KPIs of companies, and a neural network to predict the future performance of companies based on corporate fillings. During collaborating with the trading desk and the research team, I was motivated by their passion and inspired by their concentration and diligence. Challenge financial problems sparked my natural curiosity to “why things move as they do”. That is always the very reason that spurs me to figure out the connections between market factors by quantitative methods. Working with smart, curious people in an energetic and innovative environment in Point 72 is what I wish for.

I am most proficient in Python and can program in Java and C++ as well. With my Master’s-level education background in Machine Learning and Financial Mathematics, I have a good understanding of probability, statistics, and optimization.

Currently, I work in Swiss Re(insurance) as a Data Scientist. In daily work, I focus on machine learning development, database management, and computing clusters configuration. In the past a few months, I finished a model that predicts wildfire risk in North America and a model that automatically estimates losses after catastrophes. The fire risk model benefits the operation by offering fair prices to clients with different risk levels, and the loss estimation model optimizes the position by reporting the loss of a severe catastrophe right after it happens without employees physically being there. I learned not only the analytical skills but also deploying them with real-world business impact from collaborating with the internal business team and supporting external clients.

I hope that you would consider my resume favorably and look forward to hearing back from you to further discuss my background and employment opportunities.  
  
Sincerely,  
Eric Zeng