

August 16, 2023

Dear Hiring Manager,

I write you to express my interest in the position of Data Scientist at your company. I am a computer scientist and so far have conducted research mainly in cyber security and cyber insurance. This has been a rewarding experience, because each problem is different and often requires diverse tools, such as machine learning, optimization, and statistics. My interest in the insurance industry started when I got exposed to the elegant maths behind it. Since then I have been involved in related research projects, but I still want to learn how the insurance industry works in practice. For this reason joining your company would be a unique opportunity for me.

I have PhD degree in Computer Science and have strong competencies in algorithms, machine learning, statistics, and project management. My expertise in these fields has been developed (beyond coursework) through research projects. For example, I have used stochastic dynamic programming to find the optimal strategies to manage cyber risks. Also, I have worked on diverse problems concerning cyber insurance markets, in particular, mechanisms to address some barriers that hinder the growth of this industry.

I am aware of my lack of professional experience outside the academia. However, I believe that my experience formulating and executing research projects is relevant for this position. In my previous projects my duties have included: formulate problems, plan activities, configure systems, collect and validate data, automate processes, apply mathematical models and algorithms to test hypothesis, analyze and evaluate results, and communicate findings to diverse audiences. In addition, some projects also involve collaborating with experts and mentoring students, which often requires being receptive to feedback and patience to manage conflicts.

While my coding background is primarily on Python, I am eager to learn new programming languages and other technologies to broaden my technical skill set. I am confident that my ability to learn and adapt will help me to overcome quickly my lack of experience in other fields.

In closing, I believe that this position would be an excellent fit for my background and I am confident that you can find my skills, knowledge, and motivation to learn valuable.

I am looking forward to hearing from you.

Sincerely,

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