

October 6, 2020

Hiring Manager
Position Hiring Committee

Subject: Re: Quantitative, Data Science, Financial Data Engineering, Pre-Sales, Solutions Architect roles

Dear Hiring Manager[s]:

I am writing to apply for the listed position with an emphasis on analytics , decision sciences & statistics, which is advertised on your career recruitment website. I believe that the combination of my professional,client implementation, management consulting, pre-sales, academic teaching, & research experience integrated with my technical skill set in data mining, machine learning, quantitative research, databases & business analytics qualifies me as suitable candidate for the position as outlined in the job description.

Complimentary to my academic research experience, I have also gained hands-on experience at several industry research labs & divisions (e.g **Philips Research, IBM T.J. Watson Research Center, Quantitative Analytics Unit at the Securities & Exchange Commission, & ACA Decryptex Financial Laboratories**) during my doctoral studies in the graduate research internships & full-time industrial data scientist capacities. The research topics explored during these experiences ranged from indoor building occupancy analytics, predictive workload based cloud-computing auto-scaling analytics, robust analytical business tools for federal securities law regulations , & FinTech trade surveillance detection algorithm development. These unique experiences allowed me to apply research methods to practice & witness how theory can help assist in providing strategic insight value. Collaborating with the mentioned organizations helped me realize the proper approach to address sophisticated challenges with state-of-the art data analytics techniques, which I will continue to evolve going forward in my professional & academic endeavors.

My research areas are data mining & business analytics, with particular focus on applications in financial services, market research & regulations. Within that space, I have worked primarily on three topics: multimodal economics conditions estimation, scenario-based banking capital analysis & transferring relevant knowledge to foreign financial systems.

In my recent academic publication, "*Deep Learning For Financial Banking Stress Test Analytics*", I propose a model framework that leverages advanced analytical techniques to first learn from historical economic conditions using neural network based generative processes to provide exogenous factor estimations that are then combined with banking performance profile features to be selected based on dimensional & temporal importance when predicting banking capital & loss ratios using a bespoke Dual-Attention Recurrent Neural Network.

I am a highly productive & determined candidate who seeks to flourish in an academic career path at your institution. My professional experience, educational background, intangible soft-skills, & holistic approach to completing strategic initiatives may prove beneficial for your organization's overall mission. I would be delighted to provide additional materials that may help my candidacy evaluation for this opportunity.

Thank you very much for your time & consideration, it is sincerely appreciated.

Best Regards,

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