Sep 16, 2021

Songhao Li

550 Memorial Drive

Cambridge, MA 02139

Dear Arrowstreet Capital:

I am a Master of Finance student from MIT writing to apply for your Quantitative Researcher position. Your company is well-known for strong data-driven quantitative research and investment; after attending your information session, I am further impressed about how a quant researcher could learn and improve him/herself in your collaborative environment. Regarding myself, I am confident to offer a proven track record of skills listed below that would allow me to make a positive impact on your team:

* **Quantitative research capacities:** past experiences of conducting multiple quantitative research projects from different perspectives (hedge fund, asset managers, sell-side research) build up my strong quant research insight and capacities. I am able to research and construct investible signals in a fast-paced, robust, and comprehensive way; I am also aware of the value of asking the right question, and I enjoy sharpening ideas with endeavor and enthusiasm.
* **Coding and programming proficiency:** Proficient in Python and C++, I can efficiently quantify financial problems and express in a coding environment. I am experienced in handling large datasets with scientific packages, coding up object-oriented programs to manage big project, and applying machine learning models to build investment strategies.
* **Analytical, mathematical, and statistical skills:** Finishing demanding mathematical and statistical courses with outstanding GPA at top-tier universities, my strong academic background has laid me a solid analytical foundation. After professional experiences with quantitative models and machine learning algorithms (deep learning/reinforcement learning/natural language processing), I am confident to learn, apply, and analyze sophisticated models quickly and skillfully in future endeavors.

As for my career goals, in the short term I want to sharpen my quant research capacities by working within a creative and collaborative investment research team. In the long run, I am oriented to be an investment director that can lead and manage research projects as well as making impactful investments. Thank you for considering my application, and I look forward to hearing from you soon.

Sincerely,

Songhao Li