Dear Hiring Manager,

I recently viewed your job listing for the Analytics Solutions Architect position. My personal and professional objectives are well aligned with Revolution Analytics’ mission and I am excited by the opportunity to apply. I have extensive experience designing and completing research projects as evidenced by my publication record.

My PhD work included designing and completing software-based numerical research projects using a wide range of computing platforms. My PhD thesis work has focused on using data analysis of molecular dynamics simulations in the time and spectral domain, which has lead to several peer-reviewed publications on the subject. The work required a strong understanding of linear algebra and numerical methods for atomistic simulation, and Matlab was my primary tool for performing the analysis.

My MS thesis work studied turbulent flow as a stochastic dynamical process, and my coursework focused on non-linear and statistical analysis. By studying the spatio-temporal correlations of a turbulent flow, we were able to demonstrate the similarities and differences of a turbulent flow to a “white-in-time” process such as Brownian motion, leading to peer-reviewed publication.

I am excited by Revolution Analytics’ commitment to open-source development.

I initiated the use of open-source language (Python), code version control (Git), and data presentation and sharing (Github) for members of my research group, NTPL, and others.

I have extensive experience performing research projects in collaboration on a global scale, including programming-based projects. I appreciate Revolution Analytics’ commitment to teamwork and communication, as I have strived to improve communication between myself, members of my research group, and the research community.

My graduate work demonstrates that I adapt quickly to new fields, and I am eager to do so at Revolution Analytics. I look forward to hearing from you.

Thank you,

Jason Larkin