

Ray Matsumoto

GRADUATE RESEARCHER · DATA ANALYST

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Company Recruitment Team

June 10, 2021

KIT CHECK

1800 DUKE ST. SUITE 108

ALEXANDRIA, VA, USA

Job Application for Data Analyst

Dear Brooke Hamilton,

I am an enthusiastic data analyst and am writing to express my interest in joining your data science team with Kit Check. I recently became aware of Kit Check's data efforts through a conversation with Darwin Fu. I am particularly excited about the work of using data to better understand trends in hospital medication usage, as well as Kit Check's remote culture.

I believe my background would make me a great fit with your team. During my academic training in molecular modelling, I developed a strong foundation in Python and statistics, regularly developing software to implement statistical methods for understanding simulation data. My project was highly collaborative and I had the opportunity to solve complex problems with researchers from various backgrounds. This experience strengthened my skills in problem solving, collaboration and communication. These research efforts led to 10 peer-reviewed journal articles and 2 conference talks. I believe that my experiences during graduate school will prove useful in developing data products to understand hospital medication usage.

In regards to my technical expertise in data analysis, I developed a workflow to run simulations for over 400 chemical systems, conduct various analysis techniques, and compile the data into CSV format. As part of this project, I leveraged Python, data visualization, and Pandas. Additionally, I am dedicated to expand my technical skillset and learn new approaches to efficiently solve problems. As an example, I have learned how to perform SQL-style data extraction tasks in Apache Spark and Pandas on Movie Ratings and baseball datasets. My understanding is that such skills would be transferable with the tasks and tools used at Kit Check.

Kit Check has demonstrated how data-driven approaches can make hospitals and health care in general more efficient. It would be a privilege to support these efforts as a part of the data science team at Kit Check.

I appreciate your time and consideration.

Sincerely,

Ray Matsumoto