***While other parts of your application give us a sense of who you are, we are also excited to hear more about how you see yourself engaging with the larger Northwestern community.***

***In 300 words or less, help us understand how you might engage specific resources, opportunities, and/or communities here. We are curious about what these specifics are, as well as how they may enrich your time at Northwestern and beyond.***

According to the World Health Organization, "more than 3.4 million people die as a result of water-related diseases, making it the most common cause of illness and death worldwide." We can’t see or taste contaminants but if they’re that harmful to our body, what can we do about them? That's one of the things that fascinated me and made me feel more self-conscious around the water.

My passion for "water" led me to start spreading awareness of global water issues which eventually prompted me to enter a technovation girls competition to develop an under development app "Ponder." It has features that includes a water usage tracker, a map that includes specific information about the water bodies such as acidity levels and quality levels, and others. Needless to say, while conducting research for this application, it piqued me to create a water filtration system and implement it at an underprivileged area in Kei Island, Maluku, Indonesia.

Northwestern University’s Center for Water Research caught my attention with their invention of ROSALIND. With the help of this technology, the water sample from Kei Island could be tested in a matter of minutes rather than requiring multiple travels back and forth. With this system, the population in underdeveloped areas would be able to ensure that their water meets the criteria for safe drinking water. I would thus be thrilled to learn more about this useful technology. It would also be a great opportunity to interact with professors who are more educated on water-related issues. However, I will only be able to fulfill my desire to make data on water issues more approachable and comprehensible for everyone if I have a more in-depth understanding of data management, sorting, and analysis, which drives me to learning data science.

In particular, I think I am a wonderful fit for the statistics and data science department in the Weinberg College of Arts & Sciences, Northwestern University. In addition to allowing me to pursue my interest for learning data science, they also let me use what I've learned to support their water research society. My time at Northwestern isn't just about getting a job in data science; it's also about giving back to the community and to my home country, Indonesia.