***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.***

We can’t see or taste contaminants but if they’re that harmful to our body, what can we do about them? That’s the reason why Northwestern University’s Center for Water Research really caught my attention, especially with their invention of ROSALIND.

I had previously created and implemented a water filtration system in Kei Island, an underprivileged area in Indonesia. What I felt was tedious was that there were no testing centers there and all water testing needed to be done in the capital city. Therefore, I would make use of my time at Northwestern to learn more about this efficient technology, apply it in other isolated areas of Indonesia, and eventually create a water safety map that is available to everyone.

I’m also interested in Associate Professor Sera Young’s article “Inequality of household water security follows a Development Kuznets Curve”, because in addition to evaluating aspects of water security nationally, it also made note of the importance of conducting assessments from low- and middle-income nations because these nations' income levels may have a correlation with water security. This study served as a guide for me while I prototyped the completely free and accessible water usage tracker for my app. I intend to collaborate with Professor Sera using Northwestern's undergraduate research opportunity to do a more in-depth study into the forms of data analysis and how to apply this information to the water safety map.

Furthermore, I would use Northwestern's Institute on Complex Systems to guide me with my data science research study, especially when using data science and other complexity science to identify trends in water contamination through academic publications and research.

Northwestern enables me to pursue my passion in learning data science alongside my interest in water research. My time at Northwestern isn't just about getting a job in data science; it's also about giving back to the community.