In this summer, I had an internship at IBM-Research Lab in Beijing China. The internship is approximately 13 weeks starting from May. It is a great experience which teaches me a lot. During the internship, I learned what the industrial research lab looks like, what problems industry solves and what techniques industry utilizes. All these knowledge are beneficial for my future career.

I participated in three different projects. The first project is to implement DNA sequence alignment on Cloud. I am the major researcher in this project. One key step towards analysis of DNA sequence is sequence alignment. My mentor and I implemented DNA sequence alignment on Cloud so that we can efficiently align large amount of DNA sequences. The second project is to develop a mobile web application. I implemented some functions in the application. In this project, I mainly learned techniques needed to develop mobile web applications. The third project is to mine a large traffic data set (~150G). I am the major researcher in this project. We use database techniques and clustering algorithms to identify the spatial-temporal traffic flow patterns.

In summary, the research experiences at Notre Dame provide me a solid foundation to tackle new problems during my internship. My research project at Notre Dame is related with the projects at IBM research lab so I had a smooth transition at the beginning of my internship. On the other hand, the insight gained from internship inspires me with new ideas for my research at Notre Dame.