

My industry and teaching experiences were the strongest influences on my decision to pursue graduate studies, but there are many other factors between the lines that led to me embracing this career. A core value of mine is also making computer science equitable and accessible to all who want to learn. Consequently I display this through academic service & leadership within the student body as well as research on transportation based on socioeconomic factors. Collectively, this background in addition to the initiative in my statement of purpose contributed to me pursuing graduate school.

In addition to my contributions on course staff, I have promoted Diversity, Equity, and Inclusion serving on the board of the Association of Computing Machinery and Data Science Student Society. I accomplished this through mandatory seminars and participation activities on DEI values and providing examples of conduct violations within academic and professional contexts. As a result, not only does the board carry themselves with DEI in mind, but this behavior sets the example for general members, having led to a reduction in DEI related conflicts to *just one* in the previous year. Additionally, both these organizations host consulting and project cohorts to increase accessibility to learning and participating in data science and ML outside the classroom. As a Project director, I passed down technical and soft skills from my previous industry experience to these students and encouraged underrepresented individuals, especially those with no experience to apply and provided them an equitable environment because at my core, I am committed to sharing the value of data science. Overall, this involvement has helped me become not only a better leader, but shaped my background for graduate school.

Building on the importance of equitable data science, I engaged in a guided research project on public transit accessibility based on different socioeconomic factors in the NYC area focusing on inequality issues through income, proximity to public transport, and crime rate. I utilized geospatial data science to create a metric to score regions of the city based on how equitable public transportation was to someone based on their region, accounting for bias to ensure a more robust score assignment. This project further propelled my desire for graduate school as it not only led to me joining my first research group, but also embodied my initiative to utilize data science for human health & development.

Lastly, to touch on my motivation to fund graduate school, the first decision came from going to community college. Having saved 2 years of undergraduate tuition and having multiple internships, I am fortunate enough to be in a position to fund and receive a graduate degree, complementing my pursuit in student leadership as a way to give back to the community that fostered my development as a future graduate student. Collectively, these student leadership involvements, guided research experience, and personal efforts to fund my education shaped my decision to pursue a graduate degree, and I am looking forward to attending an institution that acknowledges students of all backgrounds, especially those less privileged than mine.