Personal Philosophy Statement

Throughout my journey as a student, researcher, and leader, I have encountered numerous challenges that have shaped my approach to work and professional values. One of the most defining experiences of my academic career was my research on the development of a medical decision support system at Sichuan University-Pittsburgh Institute. This experience not only reinforced my belief in the power of technology to improve healthcare outcomes but also taught me the importance of analytical thinking and collaboration in solving complex problems. Through this project, I have come to value the principles of precision and teamwork, which I consider foundational to my personal and professional philosophy.

Precision: Leveraging Data to Drive Informed Decisions

My research involved analyzing pre- and post-surgical data using Python and R to identify key risk factors affecting surgical outcomes. By developing statistical models to predict patient risks, our team was able to improve the accuracy of perioperative decision-making. This experience highlighted the necessity of precision in data analysis and model development, as even minor errors could lead to significant consequences in a medical context.

In the field of computer science, precision is crucial—not only in healthcare applications but in all areas of technology. Whether it's designing robust algorithms, debugging complex systems, or ensuring security in software applications, attention to detail can mean the difference between success and failure. My commitment to precision allows me to develop reliable and effective solutions, ensuring that my work contributes positively to any organization or research team I am part of.

Teamwork: Collaborating for Greater Impact

The development of the medical decision support system required collaboration with an 8-person multidisciplinary team. We worked together to refine data processing, optimize model performance, and integrate the decision support system into clinical workflows. This experience underscored the importance of effective communication, interdisciplinary knowledge-sharing, and collective problem-solving.

In the technology industry, teamwork is essential. Large-scale projects require individuals with diverse expertise to work towards a common goal, whether in artificial intelligence, software development, or cybersecurity. I have learned that the best solutions emerge from an environment where team members challenge and support one another. My ability to collaborate effectively ensures that I can contribute meaningfully to any group, fostering innovation and efficiency in problem-solving.

Conclusion: A Philosophy for Growth and Impact

My professional philosophy is rooted in the values of precision and teamwork, both of which have been instrumental in shaping my research and academic experiences. I believe these two

qualities are the most capable of guiding me to success and are the two greatest sources of motivation for my further exploration of the computer field. As I continue my journey in the field of computer science—whether in research, industry, or graduate studies—I will remain committed to leveraging these qualities to develop impactful technology solutions. Whether applying for a scholarship, seeking professional opportunities, or advancing my education, I am confident that my analytical mindset and collaborative spirit will allow me to make meaningful contributions to the field of computing and beyond.