

## My Interest in Computer Science

I completed my Bachelor degree in Computer Science at Kabul Polytechnic University (KPU). The reason why I chose this as my major because I have a strong interest in the area of computer science. This field allowed me to focus on the deeper knowledge and skill about artificial intelligence, data science, software engineering, computer network, cyber security, information security, network management, and wireless network. My passion and interest about technology makes me decide to continue my master's in the field of Educational Technology. Therefore, I think it is a good decision to choose this as my major. Now I am pursuing my master's degree at Educational Technology Lampung University.

Majoring at Educational Technology guides me to a deeper understanding about how to transform technology to the learning process. It offers the opportunity to create an easily access and appropriate learning media that can be used for education especially in Indonesia. Furthermore, I am planning to continue my masters' degree which focuses more on the computer science. With a good reputation, accreditation, and the facilities in King Fahd University of Petroleum and Mineral (KFUPM), I believe that the Computer Science program offers me a good chance to be a good specialist in this area.

Besides my interest in Computer Science, I used to have experiences with the Ministry of Higher Education (MoHE), Ministry of Communication and Information Technology (MCIT), National Statistics and Information Authority (NSIA) and I have faced numerous challenges organizations face in data management and analysis, data security, and safety in Afghanistan.

During my occupation at these organizations, I found there is no specific department which manage and analyze all the highly critical and useful structured or unstructured data. Similarly, other departments in Afghanistan, such as the department of passport, department of national ID card (e-Tazkira), Department of traffic, and several other relevant departments, generate ten gigabytes of data each day. However, those data are used for minimum purposes due to insufficient computation infrastructure and lack of experts. Therefore, I believe those data should be integrated and used for transforming these types of organizations to be data-driven. By doing so, we can overcome some vexing problems.

More than 200,000 students take the test annually producing a massive amount of data that can be analyzed and used for educational purposes to make some effective policies. In fact, lack of sufficient storage and computational facilities cause such data is left behind. I figured out that the problem faced by government is the MIS contains every detail about schools and ministry of Education (MoE) and administrative progress. It can be seen that if the data is leaked it will threaten the students' privacy data. So, it must be constantly archived on security system, that is not possible due to the lack of professionals and facilities in Afghanistan. lack of professors is the most important point in this regard. By having the background knowledge in Computer Science and my interest to continue my masters' degree in the same field, I do hope that I can contribute in my country to solve this problem.

In Jan 2017, I joined Ibtikaar, a governmental company supported by world bank and MCIT in Kabul, where I contributed to develop and implement the most critical MIS named Afghan School Management System (ASMS). This MIS is being implemented across Afghanistan in almost 150 private schools. Not long after this, I joined the ITCC at MoHE as a database

developer for MIS System. I brought fundamental changes in analyzing the data and producing an accurate and timely report.

Therefore, from what I have explored, I need a fully equipped and advanced university such as King Fahd University of Petroleum and Mineral (KFUPM) since KFUPM offers specific subjects in computer science. Computer Science is a viable option for addressing problems in Afghanistan. Given my experience and Afghanistan's urgent need for e-government, I plan to apply for Computer Science Scholarship through this program, which is the best solution to overcome this situation. The practical and theoretical courses offered through this master's program can help me to gain the knowledge and skills that I need.