Since 2012, I have been working in research projects while I was the bachelor student. At first, I developed a tool that used to encrypt the message twice with a secret key before sending. After that, I got interested and actively involved in research. In my academic career, I worked on 6 research projects i.e., message authentication problem, android application lifecycle implementation, software security requirements elicitation, explore SQLi vulnerability in Bangladesh, software usability evaluation, and software code diagnosis.

In 2012, a message authentication technique is developed using java that is used to encrypt twice with a key before sending to the receiver. The Same secret key is used to decrypt the message. As output, I published 2 papers in national journals. This year, I started to work for the implementation of android application’s life cycle that helps to increase the efficiency of android applications. Consequently, I published 1 conference and 1 journal articles.

In 2013, I published 1 book about android application development for novice developer written in Bangla language published by the local publisher, Gankosh Prokashoni. This year, I started to work for the elicitation of software security requirements (i.e., needs to be wrapped with software development lifecycle to increase quality). I proposed a model for the security requirement elicitation that helps to present security requirement in requirements engineering phase. I extended this work and finished my bachelor project. With that, I published 3 papers in national and international journals in 2014.

In 2015, I actively joined with a software security research team supported by Information Systems Audit and Control Association (ISACA) and maintained by Daffodil International University (DIU). They worked for Bangladesh domain. The ISACA student branch of DIU wanted to explore the SQLi vulnerability in financial and educational sector of Bangladesh. I published 5 IEEE conferences papers (i.e., indexed by SCOPUS) with the ISACA student team of DIU. With the same time, I started to work with a project, software usability evaluation. I proposed a model for the usability evaluation of complex system (e.g., point of sale, supply chain management). I published 1 conference and 1 journal paper (i.e., indexed by EI and Scopus) in 2016. This year, one of my paper is awarded as BEST PAPER in a conference written about online application platform’s security. Even this year I started to work in the area of software code diagnosis. Now, we are writing a paper as an output of the project named as leveling fault proneness statement with spectrum-based fault localization.