Md Rayhanur Rahman

Doctoral Student

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Education ——————

Ph.D.| Computer Science | North Carolina State University | 2018-Present | 3.81/4.0

Masters | Software Engineering | University of Dhaka | 2013-2014 | 3.98/4.00

Bachelor | Software Engineering | University of Dhaka | 2009-2012 | 3.96/4.00

Skills ——————

Languages: C#, Java, Python, MSSQL, R
WebDev : HTML, CSS, JS, JQuery, knockoutjs, Nodejs, ASP.NET MVC, CodeQL, KQL
Research related: Machine learning, Natural language processing
Other: Linux, Latex, Git

Extra-Curricular —

Champion, GetRoot Byteknight Cyber Security Challenge Competition - OWASP Bangladesh, 2012 | Finalist - .NET Track, BASIS Code Warriors Challenge, 2012 | Finalist, Microsoft Imagine Cup Bangladesh Software Competition, 2012

Awards ——————

Innovation Fund, Ministry of ICT, Government of Bangladesh, 2014-15 for State of the Art Mobile App Testing Framework in the Cloud | National Science and Technology (NST) Fellowship, Ministry of Science and Technology, Government of Bangladesh, 2013-14

Work Experience and Internships

Summer'20	Research Intern	Microsoft

I have worked with 1ES team to analyze and investigate how the security tools can be improved through the usage data analysis and developer survey

Aug'18 -	Graduate Assistant	North Carolina State University

As a funded student in Ph.D. program, I am working as a RA under Dr. Laurie Williams, on the domain of cyberthreat intelligence, threat modelling, threat mining, misuse case analysis

Sep'14	Lecturer	University of Dhaka

I took various courses in undergraduate program such as Discrete Math, Object Oriented Programming etc

Dec'13	Software Engineer	Kaz Software Ltd.

I Built the front and back-end ontology and identity web services using ASP.NET MVC and Knockoutjs

Research Publications

Sep'20	A Literature Review on Mining Cyberthreat Intelligence from Unstructured Texts	ICDM 2020
Jun'20	Security Smells in Infrastructure as Code Scripts	ACM TOSEM
Mar'20	Do Configuration Management Tools Make Systems More Secure? An Empirical Research Plan	HotSos 2020
May'19	Share but beware: Security Smell in Python Gists	ICSME'19

Projects

Aug'20 -	Identifying software security activities in Github repositories using NLP
Dec'19	One Page Resume Website Builder Bot for Slack
Dec'18	Spark RDD to Dataframe API converter
Dec'18	Scalable VFDT Implementation for Software Defect Prediction
Jan'15	Click2Dial Microsoft Outlook Extension
May'12	IITDURMS - Result Management System for IIT, University of Dhaka
May'10	Greenflash - Behavioral based Malware Protection System for USB Drives, works on Windows platforms

Contribution

Oct'20 -	Serving as a mentor in Erevna Research Fellowship
2019 -	Served as internal/sub reviewer for ICSE'20, MSR'20, ESEM'20