Md Rayhanur Rahman

Doctoral Student

✉ mrahman@ncsu.edu

☎ +9196497823

🌐 rayhanur-rahman.github.io

Education

Ph.D.| Computer Science | North Carolina State University | 2018-Present (Expected graduation: May'23) | 3.83/4.0

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, Graph Machine Learning

Cybersecurity: MITRE ATT&CK

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

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

Summer'21	Instructor	NC State University

Took C and Software Tools undergraduate course

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

Sep'14	Lecturer	University of Dhaka

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

Research Publications

Mar'22	Why secret detection tools are not enough: An industrial case study

Empirical Software Engineering Journal

June'21	What are the attackers doing now? Automating cyberthreat intelligence extraction from text on pace with the changing threat landscape: A survey

In review

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
May'19	Share but beware: Security Smell in Python Gists	ICSME'19

Projects

Current	Mining co-occurrence among MITRE ATT&CK TTPs
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

Contribution

Oct'20 -	Serving as a mentor in Erevna Research Fellowship
2019 -	Served as internal/sub reviewer for ICSE'21, ICSE'20, MSR'20, ESEM'20