Samin Yaseer Mahmud

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EDUCATION

North Carolina State University — Raleigh, NC
Ph.D in Computer Science — *2018-2023 (Expected)*
- **Research Interest**: Mobile Application Security, Program Analysis
- **Adviser**: William Enck

Bangladesh University of Engineering and Technology (BUET) — Dhaka, Bangladesh
Bachelor of Engineering in Computer Science and Engineering — *Graduated March, 2016*
- **CGPA**: 3.75/4.00
- **Major CGPA**: 3.81/4.00
- **Awards**: Dean's List, University Merit Scholarship

ACADEMIC EXPERIENCE

Graduate Research Assistant — NCSU WSPR Lab
May 2019 - Present
- **Cardpliance**: Cardpliance is a static analysis tool that can detect potential PCI DSS compliance in android application. After building this tool I did a measurement study on popular android applications from Google Play Store. I further validated the findings by reverse engineering the apps flagged by the tool. An academic paper for this work was accepted at **2020 USENIX Security Symposium**.
- **PoliCheck**: PoliCheck is a tool that validates if the data sharing practices of android applications that is disclosed in their privacy policy are consistent with their behavior by comparing the policies to data flows observed during dynamic analysis. My task in this project was to manually validate the results and find out research insights. Our academic paper for this project was accepted at **2020 USENIX Security Symposium.**
- **PolicyLint**: Policy Lint is a tool that finds internal inconsistencies in the privacy policy of an android application. My task in this project was to manually validate the results and identify research insights. Our academic paper for this project was accepted at **2019 USENIX Security Symposium.**

Graduate Teaching Assistant — NCSU, Raleigh, NC
August 2018 - May 2019
- **C Programming and Tools**: Dr. William Enck, Spring Semester, 2019
- **Operating Systems**: Dr. David Sturgill, Fall Semester, 2018

INDUSTRY EXPERIENCE

KONA Software Lab — Dhaka, Bangladesh
Software Engineer — *March 2016 - July 2018*
- **Digital Financial System (Nagad)**: Nagad is a digital financial service that allows the users to withdraw, deposit or transfer money through USSD menu or mobile app. This project is currently running Live in Bangladesh serving millions of customers.
- **KONA Money**: Kona Money is a mobile payment service that integrates gift cards and allows purchases to be made at the point of sale using QR code or bar code scanning.
- **Nexus Pay**: A smart payment solution which allows the user to virtually register his credit/debit card on his mobile application and do transaction though scanning QR code on merchant points. This application is available on Google Play Store

PUBLICATIONS

- **Samin Yaseer Mahmud**, Akhil Acharya, Benjamin Andow, William Enck and Bradley Reaves, Cardpliance: PCI DSS Compliance of Android Applications, *In Proceedings of the USENIX Security Symposium, Boston, MA, USA, 2020*

- Benjamin Andow, **Samin Yaseer Mahmud**, Justin Whitaker, Serge Egelman, William Enck, Bradley Reaves and Kapil Singh, , Actions Speak Louder than Words: Entity-Sensitive Privacy Policy and Dataflow Analysis with PoliCheck, *In Proceedings of the USENIX Security Symposium, Boston, MA, USA, 2020*

- Benjamin Andow, **Samin Yaseer Mahmud**, Wenyu Wang, Justin Whitaker, William Enck, Bradley Reaves, Kapil Singh, and Tao Xie, PolicyLint: Investigating Internal Privacy Policy Contradictions on Google Play, *In Proceedings of the USENIX Security Symposium, Santa Clara, CA, 2019.*

- **Mahmud SY**, Snigdha F, Rakin AS, Development of a Novel Method for Automatic Detection of Musical Chords, *In Scientific Modelling and Research 3 (1), 15-22*, March 2018