MIR MASOOD ALI

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INDUSTRY EXPERIENCE

Research Intern *May 2023 - August 2023*
Brave Software, San Francisco, California
Completed a research paper with Pete Snyder that analyzes and breaks complex JavaScript Bundles down to constituent modules. We developed a framework to identify and replace privacy-harming code that evade existing content blocking tools. This work is currently under submission.

EDUCATION

PhD in Computer Science *January 2020 - Present*
University of Illinois at Chicago
Advisors: Chris Kanich and Jason Polakis

Master of Computer Science *January 2018 - August 2019*
Dalhousie University, Halifax, Canada
Thesis: Coercion Resistant Verifiable Web-based Elections in Linear Time
Supervisor: Srinivas Sampalli

Bachelor of Computer Science and Engineering *July 2013 - June 2017*
Visvesvaraya Technological University, India

PUBLICATIONS

Rise of Inspectron: Automated Black-box Auditing of Cross-platform Electron Apps, **Mir Masood Ali**, Mohammad Ghasemisharif, Chris Kanich, Jason Polakis, (To appear) In 33rd USENIX Security Symposium (USENIX Security 24), August 2024, Philadelphia, PA.

Fledging Will Continue Until Privacy Improves: Empirical Analysis of Googles Privacy-Preserving Targeted Advertising, Giuseppe Calderonio, **Mir Masood Ali**, Jason Polakis, (To appear) In 33rd USENIX Security Symposium (USENIX Security 24), August 2024, Philadelphia, PA.

"I would not install an app with this label": Privacy Label Impact on Risk Perception and Willingness to Install iOS Apps, David G. Balash, Mir Masood Ali, Chris Kanich, Adam J. Aviv, (To appear) In Twentieth Symposium on Usable Privacy and Security (SOUPS 2024), August 2024, Philadelphia, PA.

Honesty is the Best Policy: On the Accuracy of Apple Privacy Labels Compared to Apps Privacy Policies, **Mir Masood Ali**, David G. Balash, Monica Kodwani, Chris Kanich, Adam J. Aviv, (To appear) In Proceedings on Privacy Enhancing Technologies Symposium (PoPETS), July 2024, Bristol, UK.

Navigating Murky Waters: Automated Browser Feature Testing for Uncovering Tracking Vectors, **Mir Masood Ali**, Binoy Chitale, Mohammad Ghasemisharif, Chris Kanich, Nick Nikiforakis, Jason Polakis, In Proceedings of the Network and Distributed System Security Symposium (NDSS), February 2023, San Diego, CA.

SERVICE

CVEs	CVE-2023-43799, CVE-2022-42817, CVE-2022-32933
Bug Reports	104 reports to Electron Apps; 20 reports to 7 browser vendors
Program Committee	ACM EAAMO 2024, SecWeb (*Junior PC*, 2024, 2023), ACM TWEB
Social Media Chair	EAAMO Bridges, ACM EAAMO (2021, 2022, 2023)
Mentoring	Giuseppe Calderonio (MS, UIC), Monica Kodwani (PhD, GW), Claudio Paloscia (MS, UIC), Andrea Infantino (MS, UIC)

TEACHING EXPERIENCE

Teaching Assistant - Program Design II *January 2020 - April 2020*
University of Illinois at Chicago, IL, USA
Terms: Spring 2020
Instructor: Dr. Dale Reed
Language: C++
A TA for this course manages and runs labs, holds office hours for assignments, gives presentations on data structures to groups of 20-30 students at a time

Head Teaching Assistant - Software Engineering *January 2018 - August 2019*
Dalhousie University, Halifax, Canada
Terms: Winter 2018, Summer 2018, Winter 2019, Summer 2019
Instructor: Juliano Franz
Tools: Android Studio, Firestore (W'19 and S'19: Firebase), CI (Circle and Gitlab), Version Control (GitHub and GitLab), Testing (JUnit, Espresso, Robolectric)
Methodology: Agile, XP, TDD
A Head TA for this course is required to manage and run labs. This includes giving presentations and guiding students through the course project and assignments. TA's are responsible for managing and organizing the tasks of between 3 and 5 groups of 8 members each, besides serving as clients, planning iterations, and developing acceptance tests.

Head Teaching Assistant - Network Security *January 2019 - April 2019*
Dalhousie University, Halifax, Canada
Terms: Winter 2019
Instructor: Dr. Srinivas Sampalli
Tools: Wireshark, dig, nslookup, Nessus, Maltego
Programming Languages: Java, Python, C, C++
A Head TA for this course is required to manage and run labs. This includes giving presentations and guiding students through the course project and assignments. Managing the learning management system (Brightspace), marking assignments, creating and distributing rubrics and sample solutions are included. A TA for this course also assists with proctoring examinations.

Teaching Assistant - Data Structures and Algorithms *September 2018 December 2018*
Dalhousie University, Halifax, Canada
Terms: Fall 2018
Instructor: Dr. Srinivas Sampalli
Tools: Eclipse (for Java and Maven)
A TA for this course is required to manage and run labs. This includes giving presentations and guiding students through course assignments. There is additionally an evaluation of project presentations and invigilation besides marking.