

MIR MASOOD ALI

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INDUSTRY EXPERIENCE

Research Intern

May 2023 - August 2023

Brave Software, San Francisco, California

Completed a research project with Pete Snyder that resulted in a paper at ACM CCS 2024 (a top-tier venue). Developed a novel framework that replaces privacy-harming code within highly complex web-pack bundles. Deployed an extension that enforces privacy in real-time with minimal overhead.

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

Supervisor: Srinivas Sampalli

Bachelor of Computer Science and Engineering

July 2013 - June 2017

Visvesvaraya Technological University, India

PUBLICATIONS

Lost in Translation: Exploring the Risks of Web-to-Cross-platform Application Migration, Claudio Paloscia, Kostas Solomos, **Mir Masood Ali**, Jason Polakis, in Proceedings on Privacy Enhancing Technologies Symposium (PoPETS), July 2025, Washington D.C., U.S.A.

Unbundle-Rewrite-Rebundle: Runtime Detection and Rewriting of Privacy-Harming Code in JavaScript Bundles, **Mir Masood Ali**, Peter Snyder, Chris Kanich, Hamed Haddadi, in the ACM SIGSAC Conference on Computer and Communications Security (CCS), October 2024, Salt Lake City, U.S.A.

Rise of Inspectron: Automated Black-box Auditing of Cross-platform Electron Apps, **Mir Masood Ali**, Mohammad Ghasemisharif, Chris Kanich, Jason Polakis, 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, 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, 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, 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 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	IEEE EuroS&P 2025, MADWeb 2025, SecWeb (2024, 2023), ACM EAAMO (2025, 2024)
Artifact Evaluation Committee	Usenix Security 2026, NDSS 2025, PETS 2025
Reviewer	ACM TWEB
Organizer	EAAMO Bridges, ACM EAAMO (2021, 2022, 2023)
Mentor	Giuseppe Calderonio (MS, UIC), Monica Kodwani (PhD, GW), Claudio Paloscia (MS, UIC), Andrea Infantino (MS, UIC)

TEACHING EXPERIENCE

Teaching Assistant - Program Design II University of Illinois at Chicago, IL, USA Terms: Spring 2020; Instructor: Dr. Dale Reed	<i>January 2020 - April 2020</i>
Head Teaching Assistant - Software Engineering Dalhousie University, Halifax, Canada Terms: Winter 2018, Summer 2018, Winter 2019, Summer 2019; Instructor: Juliano Franz	<i>January 2018 - August 2019</i>
Head Teaching Assistant - Network Security Dalhousie University, Halifax, Canada Terms: Winter 2019; Instructor: Dr. Srinivas Sampalli	<i>January 2019 - April 2019</i>
Teaching Assistant - Data Structures and Algorithms Dalhousie University, Halifax, Canada Terms: Fall 2018; Instructor: Dr. Srinivas Sampalli	<i>September 2018 - December 2018</i>