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 webpack 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

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, SecWeb (2024, 2023), ACM EAAMO 2024
Artifact Evaluation Committee	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 *January 2020 - April 2020*
University of Illinois at Chicago, IL, USA
Terms: Spring 2020; Instructor: Dr. Dale Reed

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

Head Teaching Assistant - Network Security *January 2019 - April 2019*
Dalhousie University, Halifax, Canada
Terms: Winter 2019; Instructor: Dr. Srinivas Sampalli

Teaching Assistant - Data Structures and Algorithms *September 2018 December 2018*
Dalhousie University, Halifax, Canada
Terms: Fall 2018; Instructor: Dr. Srinivas Sampalli