

# MIR MASOOD ALI

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## INDUSTRY EXPERIENCE

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### 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. 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

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### PhD in Computer Science

*January 2020 - Present*

University of Illinois at Chicago

### Master of Computer Science

*January 2018 - August 2019*

Dalhousie University, Halifax, Canada

### Bachelor of Computer Science and Engineering

*July 2013 - June 2017*

Visvesvaraya Technological University, India

## PUBLICATIONS

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*Vault Raider: Stealthy UI-based Attacks Against Password Managers in Desktop Environments*, Andrea Infantino, **Mir Masood Ali**, Kostas Solomos, Jason Polakis, (to appear) in Network and Distributed System Security (NDSS) Symposium, February 2026, San Diego, CA

*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.

## REVIEWING AND ACADEMIC COMMUNITY INVOLVEMENT

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### *Program Committee*

**2026**      Usenix Security, EuroS&P  
**2025**      EuroS&P, MADWeb, EAAMO  
**2024**      SecWeb, EAAMO  
**2023**      SecWeb

### *Artifact Evaluation Committee*

**2025**      Usenix Security 🏆, PETS 🏆, NDSS  
🏆 = Distinguished Reviewer

## SELECTED ACHIEVEMENTS

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<b>CVEs</b>	CVE-2023-43799, CVE-2022-42817, CVE-2022-32933
<b>Bug Bounties</b>	Rewards from app devs of Keeper, Postman, Cacher, and Wordpress.com
<b>Bug Reports</b>	104 reports to Electron Apps; 20 reports to 7 browser vendors
<b>Organizer</b>	EAAMO Bridges, ACM EAAMO (2021, 2022, 2023)
<b>Student Mentoring</b>	Jyotirmay Chauhan (PhD, UIC), Giuseppe Calderonio (MS, UIC) Monica Kodwani (PhD, GW), Claudio Paloscia (MS, UIC), Andrea Infantino (MS, UIC)

## TEACHING EXPERIENCE

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