

MAAZ BIN MUSA

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Education

University of Iowa

PhD in Computer Science

Aug. 2019 – June 2024

Iowa City, Iowa

Experience

Research Assistant

SPARTA Lab in University of Iowa

Aug 2019 – Present

Iowa City, Iowa

- Designed frameworks for **auditing privacy and compliance online**. Including studying an organizations data collecting and sharing practices. Additionally, I measured the compliance practices of these organizations to determine if user rights are upheld or not.

Research Intern

ICSI Lab

May 2022 – Aug 2022

Berkeley, California

- Lead an investigation on first-party tracking prevalence. Post third-party deprecation, I wanted to quantify collusion between publishers and advertisers facilitated via **first-party cookies**.

Research Assistant

TPI Lab in LUMS

Aug 2018 – Aug 2019

Lahore, Pakistan

- Collaborated on internet measurement projects with a focus on auditing data flows online. Created and deployed **honeypots for online malicious / tracking entities**. Built pipelines using selenium and python to leak personal identifiers and monitor how they were used / misused.

Selected Publications

Forms of Disclosure | *The Path to Automated Data Privacy Audits*

June 2023

- Mihailis Diamantis, **Maaz Bin Musa**, Lucas Ausberger and Rishab Nithyanand
- Evaluated CCPA compliance of 400 data brokers registered with the Attorney Generals Office.
- Published in Harvard Journal of Law and Technology

ATOM | *Ad-Network Tomography*

July 2022

- Maaz Bin Musa** and Rishab Nithyanand
- Uncovered undisclosed relationships between trackers and advertisers with 100% accuracy.
- Leveraged ad personalization as a vantage point for uncovering server side relationships.
- Published in Privacy Enhancing Technologies Symposium (PETS) 2022
- Runner-up for the Andreas Pfitzmann best student paper award**

CanaryTrap | *Detecting Data Misuse by Third-Party Apps on Online Social Networks*

July 2020

- Shehroze Farooqi, **Maaz Bin Musa**, Zubair Shafiq and Fareed Zaffar
- Designed a matrix based scalable honeytrap to uncover server side data sharing.
- Caught 16 entities misusing user data for ransomware and personalized advertisement.
- Published in Privacy Enhancing Technologies Symposium (PETS) 2020

Talks and Presentations

Privacy Hygiene | *Society of Privacy, Law and Technology*

Sep 2023

Graduate Research Symposium | *Empowering Transparency & Accountability in the online world*

Nov 2023

DataSkeptic | *Ad-tech series*

Jul 2022

Awards & Honors

3MT 2023 | *Peoples choice award*

Nov 2023

Travel grant | *PoPETs*

Aug 2022

Research Projects

SoK | *Optimizing privacy policy compliance analysis*

- Exploring obstacles and opportunities in compliance analysis using privacy policies.
- Identifying impactful phases of compliance measurement.

Present

CPP Dataset | *Privacy policy dataset for CCPA*

- Interpret CCPA requirement mandates.
- Analyze CCPA mandates extracted from privacy policies by domain experts.

Present

Relevant Coursework

- Online Advertising and Tracking
 - Privacy and Anonymity
- Web Mining
 - Privacy, Law and Technology
- Design and Analysis of Algorithms
 - Information Retrieval
- Data structures
 - Object Oriented Programming