Iaaz Bin Musa

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Education

University of Iowa

PhD in Computer Science

Experience

Research Assistant

SPARTA Lab in University of Iowa

- Design frameworks for auditing privacy and compliance online using NLP and ML
- Develop tools for analyzing data collecting and sharing practices of online businesses using browser instrumentation
- Measure the compliance practices of these businesses to determine if user rights are upheld or not. Our preliminary results suggest businesses that consume egregious amounts of user data, often do not provide basic privacy rights to users

Research Intern

ICSI Lab

- Lead an investigation on first-party tracking prevalence Post third-party depreciation
- Designed a framework of detecting collusion between publishers and advertisers facilitated via first-party cookies

Research Assistant

TPI Lab in LUMS

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

Selected Publications

 Forms of Disclosure The Path to Automated Data Privacy Audits Evaluated CCPA compliance of 400 data brokers using Natural Language Processing toolkit Fine-tuned an LLM to build and predict CCPA related text in privacy policies Published in Harvard Journal of Law and Technology 	June 2023		
 ATOM Ad-Network Tomography Uncovered undisclosed relationships between trackers and advertisers with 100% accuracy Converted ad content to quantifiable vectors using NLP 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 	July 2022		
 CanaryTrap Detecting Data Misuse by Third-Party Apps on Online Social Networks 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 	July 2020		
 Privacy Hygiene Society of Privacy, Law and Technology Taught a graduate level class surrounding basic online privacy hygiene 	Sep 2023		
 Graduate Research Symposium Empowering Transparency & Accountability in the online world Presented my PhD research to incoming graduate students 	Nov 2023		
DataSkeptic Ad-tech series			
• Discussed the impact and consequences of my paper ATOM on a pedeast series on Advertising technology and priv			

Discussed the impact and consequences of my paper ATOM on a podcast series on Advertising technology and privacy

Aug. 2019 - June 2024

Iowa City, Iowa

Aug 2019 - Present Iowa City, Iowa

May 2022 - Aug 2022

Aug 2018 – Aug 2019

Berkeley, California

Lahore, Pakistan

Awards & Honors

3MT 2023 <i>Peoples choice award</i> • Successfully presented my research w	ork to general aud	ience under 3 minutes	Nov 2023
Travel grant PoPETsAwarded \$1500 travel grant to attend	l PET's 2022 in A	ustralia	Aug 2022
Research Projects			
 SoK Optimizing privacy policy compliant Exploring obstacles and opportunitie Identifying impactful phases of comp 	<i>ce analysis</i> s in compliance an liance measuremen	alysis using privacy policies t	Present
 CPP Dataset Privacy policy dataset for Interpret CCPA requirement mandat Analyze CCPA mandates extracted f 	• <i>CCPA</i> es rom privacy policie	es by domain experts	Present
Relevant Coursework			
 Online Advertising and Tracking Privacy and Anonymity Web Privacy 	Mining acy, Law and nology	 Design and Analysis of Algorithms Information Retrieval 	 Data structures Object Oriented Programming

- Technology
- Information Retrieval
- Programming