

PHD CANDIDATE . COMPLITED SCIENCE

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Education

Virginia Tech

Blacksburg, USA

PhD. IN COMPUTER SCIENCE AND APPLICATIONS

August 2021 - Present

• Research: Expert in program analysis and automated code refactoring for internet privacy and security.

· CGPA: 3.88/4.00

• Advisor: Dr. Muhammad Ali Gulzar

Virginia Tech Blacksburg, USA

MASTERS IN COMPUTER SCIENCE AND APPLICATIONS

January 2025

• Courses: Software Engineering for Emerging Applications, Hot Topics in Security and Al, Network Security, Database Management Systems, Quantum Comp & Info Proc, Adv Tops Lang & Trans, Ethic & Professionalism in CS, Software Design and Quality, Statistics in Research.

FAST - NUCES Lahore, Pakistan

B.S. IN COMPUTER SCIENCE August 2017 - August 2021

• **CGPA:** 3.83/4.00 - Top 1% of students.

• Award: Magna Cum Laude

• Undergraduate Research Advisor: Dr. Zareen Alamgir

Research Publications

Unintended Privacy Risks of Using Assistive Technology in Web Applications - Abdul Haddi Amjad, Bless Jah,

FSE 2026 Muhammad Ali Gulzar, ACM International Conference on the Foundations of Software Engineering (FSE), 2026 – under submission

PETS 2026 Uncovering the Usage and Privacy Risks of HTTP Custom Headers – Abdul Haddi Amjad, Umar Iqbal, Muhammad Ali Gulzar, Proceedings on Privacy Enhancing Technologies Symposium (PETS), 2026 – under submission

Accessibility Issues in Ad-Driven Web Applications – Abdul Haddi Amjad, Muhammad Danish, Bless Jah, Muhammad Ali Gulzar, IEEE International Conference on Software Engineering (ICSE), 2025.

Blocking Tracking JavaScript at the Function Granularity – Abdul Haddi Amjad, Shaoor Munir, Zubair Shafiq,

CCS 2024 Muhammad Ali Gulzar, ACM Conference on Computer and Communications Security (CCS), 2024. ACM CCS 2024

Distinguished Artifact Award

PETS 2023

Blocking JavaScript without Breaking the Web: An Empirical Investigation – Abdul Haddi Amjad, Zubair Shafiq,
Muhammad Ali Gulzar, Proceedings on Privacy Enhancing Technologies Symposium (PETS), 2023.

TrackerSift: Untangling Mixed Tracking and Functional Web Resources – Abdul Hadi Amjad, Danial Saleem, Zubair Shafiq, Muhammad Ali Gulzar, ACM Internet Measurement Conference (IMC), 2021.

Experience _____

Amazon Arizona, U.S.A

APPLIED SCIENTIST INTERN

Summer 2025

- $\bullet \ \ Launched\ initiative\ to\ reduce\ inventory\ risks\ originating\ from\ high-risk\ external\ promotion\ channels.$
- Built pipeline identifying sellers with most sales linked to externally promoted inventory.

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- Collaborated with supply chain teams to block suppliers linked to risky inventory.
- · Gathered visual evidence from external messages to support counterfeit and fraud enforcement efforts.

AdmiralRemote, U.S.A.Research Scientist InternJan - Aug 2025

• Developed machine learning models to detect and classify ad-blocker usage across web traffic.

- Built heuristics to distinguish between partial, full, and tracker-blocking extensions.
- · Designed targeted user promotion strategies to encourage ad-unblocking and engagement.

OCTOBER 27, 2025 ABDUL H. AMJAD

Brave Software Inc San Francisco, U.S.A

Summer 2023 - Return Offer DATA PRIVACY RESEARCH INTERN

- Developed a Go-based back-end system for NFT verification for premium Brave Talk calls with unit tests.
- · Created a React-based front-end system that presents the feature option exclusively to users with Solana NFTs.
- This work has been deployed in Brave Talk.

Brave Software Inc San Francisco, U.S.A

DATA PRIVACY RESEARCH INTERN

- Summer 2022
- Developed a TypeScript-based Chrome extension to authenticate users using their existing login credentials.
- · Implemented a feature to automatically authenticate users and include Brave Talk call links in calendar invites.
- This work has been deployed in Brave Talk Extension.

Research Impact_____

Web Almanac Privacy Chapter

Remote

AUTHOR AND ANALYST

Edition 2024

- The Web Almanac is a comprehensive annual report on the state of the web, combining expert insights with data from nearly 17 million websites.
- · I co-authored the Web Almanac Privacy chapter alongside other experts, creating an accessible resource for the web privacy community that garners nearly 10K views monthly.
- · This chapter provides an in-depth analysis of online tracking mechanisms, browser privacy protections, and compliance with data protection regulations.

Privacy Violation Discovered

Remote

REPORTED PRIVACY INVASIVE JAVASCRIPTS

- · Using our privacy tool, I identified and reported privacy-invasive JavaScripts to EasyList authors, enhancing web privacy for over one million ad-block users. Key reports included:
 - oe24.at (advertising.js): Detects ad blockers and adapts behavior, yet remains unblocked.
 - kakaku.com (js.cookie.min.js): Sets tracking cookies as per the site's privacy policy, yet remains unblocked.
 - wkrn.com (htlbid-advertising.min.js): Manages ad slots, lazy loading, and targeting, yet remains unblocked.
 - foxnews.com (afpid.js): Collects unique identifiers like Fingerprint IDs for tracking, yet remains unblocked.

ProperData Project Remote

RESEARCHER

2021 - Present

- ProperData is a research group at UC Irvine focused on addressing data privacy and security challenges through innovative software engineering and system design solutions.
- · My research develops automated frameworks to address limitations in privacy-enhancing technologies, such as automated fault localization.

Teaching and Mentoring

Virginia Tech Blacksburg, U.S.A

GUEST LECTURE (BIT/CS/PSCI 4164 - FUTURE OF SECURITY)

Aug 2025

- Delivered a lecture on web tracking defenses and privacy-preserving program analysis.
- · Discussed modern techniques for identifying tracking behaviors and enforcing privacy guarantees.
- Engaged with students on the future of secure and privacy-aware web technologies.

Washington University in St. Louis

Remote

GUEST LECTURE (DATA-DRIVEN PRIVACY AND SECURITY COURSE)

- · Presented research on function-level JavaScript blocking to identify and mitigate privacy-invasive tracking scripts.
- Discussed strategies to preserve essential web functionality while enhancing user privacy.
- Engaged with students and faculty to explore advancements in web privacy technologies.

Center for the Enhancement of Engineering Diversity (CEED)

Blacksburg, U.S.A

Undergraduate Student Mentor

GRADUATE TEACHING ASSISTANT

2024

- Supervised a minority undergraduate students collaborating with me on one of my research projects.
- · Provided mentorship on research methodologies, helping one student present their work as a poster during the VT Undergraduate
- Co-authored a research paper with the student, incorporating their contributions; the paper (ICSE 2025) was successfully published.

CS 5774: User Interface Software

Blacksburg, U.S.A

- · Designed and evaluated quizzes, assignments, and final projects to assess student understanding.
- Assisted students with queries and provided feedback to improve their comprehension of course materials.
- Supported the instructor with course preparation, material management, and facilitating learning.

OCTOBER 27, 2025 ABDUL H. AMJAD **Educative Inc** Lahore, Pakistan May 2019 - July 2021

EDUCATIVE ANSWERS TECHNICAL LEAD

- Developed a Python script to crawl the most searched programming questions for generating Educative Answers.
- Built resource-efficient Docker environments for backend operations in multiple programming languages.
- Managed a team of 20, overseeing progress and defining deliverables.

Invited Talks_____

2024	IEEE Symposium on Security and Privacy, Mitigating JavaScript Tracking Functions Using	San Francisco, U.S.A
	Chromium V8's Generated ASTs.	
2024	Google Privacy Sandbox, Exploring Opportunities for our Tool(Not.JS) to Support Google's	Remote
	Privacy Budgeting Initiative.	
2023	Ad-Filtering Developer Summit , Demystifying the Mystery of Privacy-Invasive JS Functions.	Amsterdam
2023	ProperData Symposium , How to block tracking JavaScript functions.	Boston, U.S.A
2022	Ad-Filtering Developer Summit, What's the next era of content blockers?	Amsterdam
2022	ProperData Symposium, Mixing of JS Functions.	Irvine, U.S.A
2021	Ad-Filtering Developer Summit, How to disentangle tracking code from functional?	Remote

Honors & Awards _____

FELLOWSHIPS

2024-2026 Winner , John Lee Pratt Graduate Fellowship	Virginia Tech
2024-2026 Winner , Graduate Research Development Program (GRDP) Fellowship	Virginia Tech

AWARDS

2024	Winner , ACM Conference on Computer and Communications Security (CCS) Distinguished Artifact	Utah. U.S.A
2021	Award, 2024	01011, 0.0.71

GRANTS

2024	Travel Grant, IEEE Symposium on Security and Privacy	San Francisco, U.S.A
2024	Travel Grant, ACM Conference on Computer and Communications Security	Utah, U.S.A
2023	Travel Grant, Proceedings on Privacy Enhancing Technologies Symposium	Lausanne, CH

References _____

Advisor Muhammad Ali Gulzar , Assistant Professor at Virginia Tech	gulzar@cs.vt.edu
Collab Zubair Shafiq , Associate Professor at UC, Davis	zubair@ucdavis.edu
Manager Dhruy Kuchhal , Sr. Security Researcher at Amazon	dkuch-
Manager Din av Raeimat, 51. Security Researcher at Amazon	hal@amazon.com
Manager Igor Bilogrevic, Staff Research Scientist at Google	ibilogre-
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Manager Marshall Rose, Principal Research Scientist at Brave	mrose@brave.com