

Aafaq Sabir

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Raleigh, North Carolina, USA

EDUCATION

North Carolina State University (NCSSU)

Ph.D. Computer Science (CGPA: 4.0/4.0), Advisor: Dr. Anupam Das
MS Computer Science (CGPA: 4.0/4.0)

August 2021 — May 2026 (Expected)
December 2024

Lahore University of Management Sciences (LUMS)

BS Computer Science (CGPA 3.57/4.0)

August 2016 — May 2020

EXPERIENCE

WSPR Lab @ North Carolina State University (NCSSU)

Raleigh, North Carolina

Graduate Research Assistant (4th year PhD student)

Aug 2021 — Present

- I do user privacy and compliance research on Smart Voice Assistants and IoT devices involving developing AI-based compliance enforcement tools, user studies and online targeted advertisement
- Research Interests:** Compliance, Human-centered Security and Privacy, User profiling and Targeted ads

Allthenticate

Houston, Texas

Software Engineer (Summer Intern)

May — Aug 2023

- As a summer SWE intern (Full-stack Software Engineer) I developed components of the admin portal built on Flask, Vue 3, MongoDB, and SQL. Updated SQL scheme to support new features
- Improved the event logging for more granular controls and history for customers and company itself
- Analyzed logs and estimated the efficiency of company's security products

North Carolina State University (NCSSU)

Raleigh, North Carolina

Instructor and Administrator

May — July 2025

- Appointed as Instructor and Administrator for CSC 116 Intro to Programming in Java

Teaching Assistant

Jan — May 2023

- Appointed as TA for CSC 574 (Computer and Network Security): Delivered lecture on Anonymous Communication

Educative.io

Lahore, Pakistan

Technical Content Engineer

Aug 2020 — Sep, 2021

- I created Vue 3 (JavaScript framework) course along with several other courses on programming languages

PUBLICATIONS

- Analyzing Ad Prevalence, Characteristics, and Compliance in Alexa Skills. Accepted in *IEEE S&P 2025*. [Aafaq Sabir](#), [Abhinaya S.B.](#), [Dilawer Ahmed](#), and [Anupam Das](#).
- Spying through your voice assistants: realistic voice command fingerprinting. *USENIX Security 2023*. [Dilawer Ahmed](#), [Aafaq Sabir](#), and [Anupam Das](#).
- Speaker Orientation-Aware Privacy Control to Thwart Misactivation of Voice Assistants. 2023 53rd Annual IEEE/IFIP International Conference on Dependable Systems and Networks (*DSN*). [Shaohu Zhang](#), [Aafaq Sabir](#), and [Anupam Das](#).
- Hey Alexa Who am I talking to?: Analyzing User's Perception and Awareness regarding Third-party Alexa Skills. *CHI 2022*. [Aafaq Sabir](#), [Evan Lafontaine](#), and [Anupam Das](#).
- Analyzing the Impact and Accuracy of Facebook Activity on Facebook Ad-Interest Inference Process. *CSCW 2022*. [Aafaq Sabir](#), [Evan Lafontaine](#), and [Anupam Das](#).
- Understanding the Privacy Implications of Adblock Plus's Acceptable Ads. *ASIACCS 2021* [Ahsan Zafar](#), [Aafaq Sabir](#), [Dilawer Ahmed](#), and [Anupam Das](#).

SKILLS

- Analytics/Research:** Fine-tuning LLMs, ML (Tensor-flow), Statistical Analysis (regression, ANOVA, multi-variate methods), Qualitative and Quantitative methods, Algorithmic Auditing, Causal inference
- Dev stack:** Node.js, Vue.js, Express, MongoDB, Browser Extension, Android Dev
- Programming languages/Tools:** Python, R, C++, C, JavaScript, Golang, Java, SQL, MongoDB, Docker
- Cloud computing:** AWS, GCP, Local org cloud servers

Bug Bounties: Received \$200 Bug Bounty in Amazon Vulnerability Research Program - Devices (2024)

SOFTWARE ENGINEERING PROJECTS

CheckMate: Built an online platform to conduct a coding competition. The web app runs the submitted code (currently supports C++) and evaluate the results based on the provided test cases and updates the leaderboard

QAnon: Built a truly anonymous question answering platform on MERN stack with the functionality of comment replies

NOTABLE COURSES

Grad: Computer and Network Security, Cryptography, OS Security, Adv Internet Protocols, Compiler Construction

Undergrad: Artificial Intelligence, Network Security, Software Engineering, NLP, Operating systems, Algorithms

REFERENCES

Dr. Anupam Das (anupam.das@ncsu.edu)