

SHAARIF SAJID

Georgia Institute of Technology, Atlanta, USA
shaarifsajid.github.io

PROFESSIONAL SUMMARY

I am a second year PhD student specializing in network security, privacy, Internet measurement, and data science.

ACADEMIC HISTORY

Georgia Institute of Technology

PhD in Computer Science (GPA: 3.78/4)

August 2019 - present

Relevant courses: Secure Computer Systems, Computer Networks, Network Security

Lahore University of Management Sciences (LUMS)

BS in Computer Science (GPA: 3.69/4)

August 2015 - June 2019

Relevant courses: Data Structures, Algorithms, Advanced Programming, Software Engineering, Deep Learning, Principles and Techniques of Data Science

TECHNICAL STRENGTHS

Languages

Python, C++, C, Go, SQL, JavaScript, HTML, CSS

Software & Tools

Amazon EC2, Microsoft Azure, ZGrab, React Native, Google BigQuery

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology

Graduate Research Assistant (under Dr. Paul Pearce)

January 2020 - present

- Developing large-scale Internet analysis tools (ZGrab2 modules) in Go to study APT (advanced persistent threat) actors.
- Used Google BigQuery to analyze Censys data and ZGrab scan results to characterize the prevalence of the Derusbi malware on the Internet.

Lahore University of Management Sciences (LUMS)

Research Assistant (under Dr. Mobin Javed)

Summer 2019

- Uncovered geographical biases in web inaccessibility by implementing web-crawlers and experiments in Python, using websites hosted on Cloudflare.
- Developed a browser extension in JavaScript, HTML and CSS which acts as a security assistant for users by passively nudging them towards better online decisions.

Teaching Assistant (Graduate Network Security)

January 2019 - May 2019

- Duties involved designing and administering programming labs, as well as grading class quizzes, labs and exams. Topics covered include web security, cryptography, blockchains, botnets, network protocols and cloud computing.

COURSE PROJECTS

Georgia Institute of Technology

Network Security

- Performed network and binary analysis on Windows, Linux and Android malware to understand their behaviour and possible mitigations.

Computer Networks

- Designed a complex network topology in Mininet to study BGP (Border Gateway Protocol) hijacking attacks.

Lahore University of Management Sciences (LUMS)

Software Engineering

- Developed an Android application, Sportify, using React Native, which helps campus students find partners for recreational sports, based on vicinity, availability and skill level.

RESEARCH PUBLICATIONS

Michael Carl Tschantz, Sadia Afroz, **Shaarif Sajid**, Shoaib Asif Qazi, Mobin Javed, Vern Paxson
A Bestiary of Blocking: The Motivations and Modes behind Website Unavailability
8th USENIX Workshop on Free and Open Communications on the Internet (FOCI 2018), August 2018

Faqia Iqbal*, Saad Jamal*, **Shaarif Sajid***, Shoaib Asif*, Mobin Javed
Towards Building a Support System for User Security Awareness

Poster at USENIX Security '18, August 2018

*Note: * implies equal contribution.*

HONORS AND AWARDS

Chair's Fellowship - Georgia Institute of Technology

Fall 2019

Fully covered tuition and stipend.

Award of Distinction - LUMS

2019

Graduated with a CGPA greater than 3.59.

Dean's Honor List - LUMS

2016, 2017, 2018

Maintained an annual GPA greater than 3.59.