

# SHAARIF SAJID

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

## PROFESSIONAL SUMMARY

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I am a Masters student specializing in network security and computing systems. I am actively looking for full-time software and security engineering/analyst roles.

## TECHNICAL STRENGTHS

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<b>Languages</b>	Python, C++, C, Go, SQL, JavaScript, HTML, CSS
<b>Software &amp; Tools</b>	Amazon EC2, Microsoft Azure, ZGrab, React Native, Google BigQuery

## PROFESSIONAL EXPERIENCE

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### Georgia Institute of Technology

*Graduate Teaching Assistant*

*January 2021 - May 2022*

Computer Networking I - CS 3251 (Spring 2021)

- Duties involved grading quizzes, exams. Topics covered include application layer, transport layer (TCP/UDP), link layer, and wireless layer.

Intro to Information Security - CS 6035 (Fall 2021 & Spring 2022)

- Duties involve designing quizzes and exams, leading projects, as well as grading. Topics covered include web security, cryptography, database security, malware analysis.

*Graduate Research Assistant (under Dr. Paul Pearce)*

*August 2019 - December 2020*

- 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

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### Georgia Institute of Technology

*Network Security*

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

*Natural Language Processing*

- Implemented a bidirectional LSTM-CNN-CRF for sequence labeling. Also worked on analyzing Reddit data to study mental health issues such as PTSD, depression and anxiety.

### 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

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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.*

## ACADEMIC HISTORY

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### Georgia Institute of Technology

MS in Computer Science

*August 2019 - May 2022 (Expected)*

**Relevant courses:** Advanced Operating Systems, Secure Computer Systems, High Performance Computer Architecture, Computer Networks, Network Security, Applied Cryptography, Natural Language Processing

### 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