Shaarif Sajid

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I am a highly motivated and experienced information security professional with an MS in Computer Science. Specialized in computing systems and networks, my strong research and engineering skills are demonstrated through publications at top-tier security conferences and over 2 years of experience as a graduate teaching and research assistant.

ACADEMIC HISTORY

Georgia Institute of Technology
MS in Computer Science   *August 2019 - December 2022*
Relevant courses: Advanced Operating Systems, Secure Computer Systems, Computer Networks, Network Security, Applied Cryptography, Graduate Algorithms

Lahore University of Management Sciences (LUMS)
BS in Computer Science   *August 2015 - June 2019*
Relevant courses: Software Engineering, Data Science, Data Structures, Advanced Programming, Deep Learning

TECHNICAL STRENGTHS

Prog. Languages	Python (Numpy, Pandas, PyTorch), C++, C, Bash, Go, SQL, JavaScript, HTML, CSS
Software & Tools	AWS, Microsoft Azure, Git, Linux, ZGrab, React Native, Selenium, Kubernetes

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology
Graduate Teaching Assistant   *January 2021 - May 2022*
Intro to Information Security - CS 6035 (Fall 2021 & Spring 2022)
- Designed and conducted quizzes and exams, led projects, as well as graded various components. Topics covered include web security, cryptography, database security, malware analysis, threat intelligence.
Computer Networking I - CS 3251 (Spring 2021)
- Graded assignments and exams, conducted tutorials. Topics covered include application layer, transport layer (TCP/UDP), network layer, and link layer.

Graduate Research Assistant   *August 2019 - December 2020*
- Quantified and characterized the prevalence of the Derusbi advanced persistent threat (APT) malware in various nation-states, by using Censys data, ZGrab and Google BigQuery.

Lahore University of Management Sciences (LUMS)
Research Assistant   *April 2019 - July 2019*
- Uncovered geographical biases on the Internet, by studying web inaccessibility through implementing Python web-crawlers on AWS EC2 instances worldwide.
- Developed a browser extension in JavaScript, HTML and CSS to act as a security assistant for users by passively nudging them towards better online decisions, e.g. less password reusing.

PROJECTS

- **Developed a multiplatform (Android + iOS) application**, Sportify, using React Native, which helps campus students find partners for recreational sports, based on vicinity, availability and skill level.
- Performed **network and binary analysis** on malware to understand their behaviour and possible mitigation. Executed security and vulnerability assessments of various platforms and websites.
- Discovered and characterized network application layer aliveness using datasets of IPv4 scans to determine how much of IPv4 space is alive at the application layer, which allowed me to learn about handling **big data and working with high performance computing clusters**.
- 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.
- Studied and configured **OSPF (Open Shortest Path First)** and **BGP (Border Gateway Protocol)** on routers in a multi-tier small scale Internet to mimic the behavior of real world autonomous systems.