Shaarif Sajid

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Highly motivated and passionate software engineer with an MS in Computer Science. Specialized in computing systems and building data pipelines, my strong engineering and research skills are demonstrated through various projects and more than 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, Computer Networks, Secure Computer Systems

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

TECHNICAL STRENGTHS

Prog. Languages	C++, Python (Numpy, Pandas, PyTorch), JavaScript, C, SQL, Bash, Go, HTML
Software & Tools	Spark, OAuth, SAML, AWS, Azure, Firewalls, IDS, IPS, Wireshark

PROFESSIONAL EXPERIENCE

Fuzzy Logic Consulting, Data Analyst *April 2023 - Present*
- Leveraged data analytics and cybersecurity best practices to interpret and secure high-volume logistics data, employing SQL and Python. Utilized AWS cloud services to deploy scalable security-focused solutions.

Georgia Tech, Graduate Teaching Assistant *January 2021 - May 2022*
Intro to Information Security - CS 6035 (Fall 2021 & Spring 2022)
Computer Networking I - CS 3251 (Spring 2021)
- Collaborated across multi-disciplinary teams to design, implement, and integrate quizzes and projects covering web security, cryptography, database security, malware analysis, TCP/UDP, network layer, and link layer.

Georgia Tech, Graduate Research Assistant *August 2019 - December 2020*
- Specialized in threat intelligence by quantifying and characterizing the prevalence of the Derusbi advanced persistent threat (APT) malware across various nation-states. Developed a secure data-processing pipeline using Python, Censys data, ZGrab, and Google BigQuery, focusing on vulnerability identification and risk mitigation.

Lahore University of Management Sciences (LUMS), Research Assistant *April 2019 - July 2019*
- Led initiatives in threat detection by identifying geographical biases on the Internet using Python web crawlers deployed on AWS EC2 and Azure. Developed a Chrome extension for real-time security assistance, promoting secure practices like unique password usage and timely security updates.

PROJECTS

- **Distributed Service Development with gRPC & MapReduce** (C, C++): Spearheaded the development of a distributed microservices architecture using gRPC and C++, incorporating security measures to ensure data integrity. Designed a high-throughput, scalable MapReduce framework that can be adapted for big data security analytics solutions.
- **IPv4 Network Analytics for Application Layer Insights** (Python, Spark): Leveraged Spark to conduct advanced analytics on IPv4 scan datasets, discovering critical insights into network application layer behavior with a focus on security vulnerabilities.
- **Scalable Malware Data Analytics & Security** (Python, Spark): Conducted network and binary analysis on different malware families, enabling a deeper understanding of their behavior and implementing effective mitigation strategies.
- **Scalable Network Configuration with OSPF & BGP** (Python, FRRouting): Led the study and secure configuration of OSPF and BGP routing protocols in a simulated network, employing Python and FRRouting. Played a key role in architecture discussions to enhance the system's security, scalability, and reliability.