Muhammad Muzammil

Stony Brook, NY, 11790

LinkedIn | GitHub | Email: mmuzammil@cs.stonybrook.edu | Mobile: (+1) 631-361-0730

EDUCATION

Stony Brook University   Aug 2022—Present
Ph.D. in Computer Science (focus in cybersecurity), CGPA: 3.9/4.0   *Expected Graduation: 2027*

Lahore University of Management Sciences   Aug 2018—May 2022
Bsc. in Computer Science (focus in computer networking & cybersecurity)

WORK EXPERIENCE

Stony Brook Univesity [PragSec Lab]   Aug 2022—Present
Research Assistant & Teaching Assistant   *Stony Brook, NY*

- **Web3 Domain-Dropcatching**: Conducted a comprehensive study revealing over 200,000 ENS domains were re-registered, capturing unintended transactions due to residual trust from their previous owners.(**IMC 2024**)
- **Typosquatting on Web3 Domains**: Developed a crawler to collect and analyze extensive datasets of Web3 domain names (including ENS, Unstoppable Domains, and ADA Handles) and blockchain transactions, uncovering that 37% of popular domains are targeted by typo-squatting. These attacks have successfully diverted an average of $1,700 per targeted domain. (**eCrime 2024**)
- **Teaching Assistant**: Software Security & System Fundamentals II

Infoblox   June 2024—August 2024
Web Security Intern   *Tacoma, WA*

- **Longitudinal Dropcatch Domain Detector**: Designed and implemented a system to detect dropcatched domains that were queried by Infoblox customers.

Lahore University of Management Sciences   Aug 2020—May 2022
Research Assistant & Teaching Assistant   *Lahore, Pakistan*

- **Software Debloating Benchmark**: Designed and implemented an extensible benchmarking infrastructure for software debloating tools, and used it to conduct performance analysis of various existing software debloaters (**ESORICS 2023**)
- **Teaching Assistant**: Computational Problem Solving, Object Oriented Programming in C++ (Head Teaching Assistant for 2 semesters) & Introduction to Artificial Intelligence

PUBLICATIONS

- **SoK: A Tale of Reduction, Security, and Correctness-Evaluating Program Debloating Paradigms and Their Compositions**. 29th European Symposium on Research in Computer Security (ESORICS 2023). [PDF]
- **Typosquatting 3.0: Characterizing Typosquatting in Blockchain Naming Systems**. 2024 Symposium on Electronic Crime Research (eCrime 2024).
- **Panning for gold.eth: Understanding and Analyzing ENS Domain Dropcatching**. ACM Internet Measurement Conference 2024 (IMC 2024).

ACADEMIC SERVICE

- **Artifact Evaluator**: ACM Conference on Computer and Communications Security (ACM CCS) 2023.

AWARDS AND HONORS

Conference Travel Grant   2023
ACM Internet Measurement Conference (IMC). Montreal, Canada.   *Fund for conference attendance*

Chairman Fellowship Award   2022 & 2023
Stony Brook University   *Awarded to the top PhD applicants*

Dean's Honor List   2020
Lahore University of Management Sciences   *Awarded for academic excellence*

Skills & Relevant Courses

- **Programming Languages & Tools**: Python (Expert), C/C++, MySQL, RabbitMQ, Docker, LaTeX, Javascript, BERT, HTML, CSS, Git/Github

- **Relevant Courses**: Data Science, Advanced Programing, Computer Networks, Research in Computer Networks, Network Security, System Security, Operating Systems, Algorithms & Data Structures, Databases