

# Muhammad Muzammit | Ph.D. Candidate

New York, USA

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## EDUCATION

### Stony Brook University

August 2022—May 2026

Ph.D. in Computer Science. Focus in Web Security and Fraud Detection. Advisor: Nick Nikiforakis

CGPA: 3.9/4.0

### Lahore University of Management Sciences

August 2018—May 2022

Bachelors in Computer Science

## EXPERIENCE

### Stony Brook University (PragSec Lab)

August 2022—Present

Research Assistant

Stony Brook, NY, USA

- Designed and deployed a distributed longitudinal web crawler that identified 43,000+ newly created cryptocurrency scam websites over eight months, linked to multi-million-dollar financial losses
- Built isolated environments to perform network traffic analysis on cryptocurrency client applications to uncover user privacy leakage
- Conducted large-scale measurements identifying 270,000+ high-risk Web3 domains used in social engineering fraud campaigns, and developed lightweight security mitigations integrated into a widely used digital wallet to reduce user exposure to financial fraud.
- Contributing to peer-reviewed publications at leading computer security conferences

### Infoblox

June 2024—August 2024 & May 2025—August 2025

Web Security Intern

Tacoma, WA, USA

- Led a research-to-production project detecting expired domains re-registered by malicious actors
- Engineered high-throughput ML and LLM-assisted pipelines to analyze millions of domains per day, automatically identifying large volumes of malicious domains
- Focusing on production grade scalability for long-term deployment

### Lahore University of Management Sciences

August 2020—May 2022

Research Assistant

Lahore, Punjab, Pakistan

- Designed and implemented an extensible benchmarking framework for evaluating software debloating tools
- Analyzed trade-offs in security, size, correctness, and build time across prominent software debloating tools.
- Demonstrated novel tool compositions that improved gadget-class reductions up to 74%

## SKILLS AND QUALIFICATIONS

- Programming Languages, Frameworks, & Tools:** Python, C++, MySQL, Bash, Selenium, Git, REST APIs, Docker, RabbitMQ, Kafka, AWS, PyTorch, OCR, Linux Network Namespaces, and Wireshark
- Project Design:** Design and implementation of large-scale systems with scalable and modular infrastructure.

## AWARDS AND HONORS

- Bronze Medal**, IEEE Symposium on Electronic Crime Research (2024)  
Awarded for Paper # 6.
- Conference Travel Grant**, ACM Internet Measurement Conference (2023)  
Awarded funding for conference attendance
- Chairman Fellowship**, Stony Brook University (2022 & 2023)  
Granted to top Ph.D. applicants
- Dean's Honor List**, Lahore University of Management Sciences (2020)  
Recognized for academic excellence

## PUBLICATIONS AND ONGOING WORK

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1. **New Trains, Same Rails: Fingerprinting Cryptocurrency Client Software via Network Requests.**  
**M. Muzammil**, O. Starov, Z. Ma, and N. Nikiforakis. IFIP Networking Conference 2026. [[PDF](#)]
2. **No Wallet for Old Tricks: Introducing Context-aware Defenses Against Cryptocurrency-based Social Engineering Attacks.**  
**M. Muzammil**, H. Shah, and N. Nikiforakis. European Workshop on System Security 2026 (EuroSec). [[PDF](#)]
3. **Echoes of the Past: Detecting Malicious Re-registrations using Telemetry and Generative AI.**  
**M. Muzammil**, Z. Ansari, N. Nikiforakis, and D. Johnson.  
Workshop on Measurements, Attacks, and Defenses for the Web 2026 (MADWeb). [[PDF](#)]
4. **The Poorest Man in Babylon: A Longitudinal Study on Cryptocurrency Investment Scams.**  
**M. Muzammil**, A. Pitumpe, X. Li, A. Rahmati, and N. Nikiforakis  
ACM Web Conference 2025 (WWW). [[PDF](#)]
5. **Panning for gold.eth: Understanding and Analyzing ENS Domain Dropcatching.**  
**M. Muzammil**, Z. Wu, A. Balasubramanian, and N. Nikiforakis  
ACM Internet Measurement Conference 2024 (IMC). [[PDF](#)]
6. **Typosquatting 3.0: Characterizing Typosquatting in Blockchain Naming Systems.**  
**M. Muzammil**, Z. Wu, L. Harisha, B. Kondracki, and N. Nikiforakis  
IEEE Symposium on Electronic Crime Research 2024 (eCrime). [[PDF](#)] (**Bronze Medal Award**)
7. **SoK: Evaluating Program Debloating Paradigms and Their Compositions.**  
M. Ali, **M. Muzammil**, F. Karim, A. Naeem, R. Haroon, M. Haris, H. Nadeem, W. Sabir, F. Shaon, F. Zaffar, V. Yegneswaran, A. Gehani, S. Rahaman.  
European Symposium on Research in Computer Security 2023 (ESORICS). [[PDF](#)]

## MAGAZINE ARTICLE

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1. **Scams at Scale: Unmasking Crypto Fraud and Social Engineering on the Modern Web.**  
A. Pitumpe, **M. Muzammil**, X. Li, N. Nikiforakis, and A. Rahmati  
XRDS: Crossroads, The ACM Magazine for Students (2025) [[DOI](#)]

## MEDIA COVERAGE

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- **Fast Company:** “Scammers are making thousands of dollars through blockchain typosquatting” [↗](#)
- **Stony Brook University:** “SBU Researchers Uncover New Cybersecurity Risks in Blockchain, Win eCrime Medal” [↗](#)
- **Science X:** “Scammers exploit tiny typos to trick people into sending money to their crypto wallets” [↗](#)
- **State University of New York Research Foundation:** “SBU Researchers Uncover New Cybersecurity Risks in Blockchain, Win eCrime Medal” [↗](#)

## ACADEMIC SERVICE

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- **Paper Reviewer:**  
MADWeb 2026  
ACM WWW 2025
- **Artifact Evaluator:**  
ACM CCS 2023  
USENIX Security 2025
- **Instructor:**  
Honeypots and Intrusion Detection (SBU) x2
- **Teaching Assistant:**  
Software Security (SBU)  
System Fundamentals II (SBU)  
Introduction to Programming (LUMS) x2  
Artificial Intelligence (LUMS)  
Computational Problem Solving (LUMS)