

# Muhammad Muzammil | Ph.D. Candidate

New York, USA

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## EDUCATION

### Stony Brook University

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

August 2022—Present

CGPA: 3.9/4.0

### Lahore University of Management Sciences

Bachelors in Computer Science

August 2018—May 2022

## EXPERIENCE

### Stony Brook University (PragSec Lab)

Research Assistant

August 2022—Present

Stony Brook, NY, USA

- Longitudinally identified **43,000+** newly created cryptocurrency scam websites in the wild within an 8-month period
- Discovered **270,000+** high-risk Web3 domains implicated in large-scale financial fraud; developed technical defenses to mitigate these threats
- Contributing to **peer-reviewed publications** at leading computer security conferences

### Infoblox

Web Security Intern

June 2024—August 2024 & May 2025—August 2025

Tacoma, WA, USA

- Led a project to detect expired domains re-registered by malicious actors, focusing on production-grade scalability
- Developed pipelines to detect over **30,000** re-registered domains daily, leveraging **LLMs and machine learning** to automatically identify thousands of malicious domains

### Lahore University of Management Sciences

Research Assistant

August 2020—May 2022

Lahore, Punjab, Pakistan

- Designed and implemented an extensible benchmarking framework to evaluate 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 & Tools:** Proficient in Python, C++, SQL, Bash, Git, RESTful APIs, Docker, and Wireshark
- Cloud & Frameworks:** AWS cloud environments, PyTorch, and Selenium for scalable development and automation.
- Project Design:** Design and implementation of large-scale systems with scalable and modular infrastructure.

## PUBLISHED PAPERS AND ONGOING RESEARCH

- 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](#)
- 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](#)
- 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**)
- 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

- 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) [🔗To Appear](#)

## AWARDS AND HONORS

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1. **Bronze Medal**, IEEE Symposium on Electronic Crime Research (2024)  
Awarded for Paper # 3.
2. **Conference Travel Grant**, ACM Internet Measurement Conference (2023)  
Awarded funding for conference attendance
3. **Chairman Fellowship**, Stony Brook University (2022 & 2023)  
Granted to top Ph.D. applicants
4. **Dean's Honor List**, Lahore University of Management Sciences (2020)  
Recognized for academic excellence

## 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" [↗](#)

## CERTIFICATIONS

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- Deep Learning Specialization by Andrew Ng (2020) [↗](#)
- Introduction to Data Science in Python by the University of Michigan (2020) [↗](#)

## ACADEMIC SERVICE

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- **Program Committee Member:**  
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)