

Abisheka Pitumpe

PH.D. STUDENT · STONY BROOK UNIVERSITY

Department of Computer Science, Stony Brook University, Stony Brook, NY

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Research Interests

My research centers on the detection and prevention of web scams and social engineering attacks. I focus on creating and evaluating systems that enhance web security, addressing challenges in identifying and mitigating these threats.

Education

Stony Brook University

PH.D, COMPUTER SCIENCE

Courses: Data Science, Systems Security, Visualization, Network Security, Analysis of Algorithms
Wireless and Mobile Networks

Stony Brook, New York

Aug 2023 - Expected May 2028

Sri Lanka Institute of Information Technology

BSC. IN INFORMATION TECHNOLOGY SPECIALIZING IN CYBERSECURITY

GPA: 3.82/4.0

Malabe, Sri Lanka

Feb 2018 - Jan 2022

Research Experience

Stony Brook University

ADVISOR: PROF. AMIR RAHMATI - ETHOS LAB

- My research focuses on developing methodologies to detect and protect against internet scams such as pig butchering scams.

Stony Brook, NY

Aug. 2023 - Present

Sri Lanka Institute of Information Technology

ADVISOR: PROF. JANAKA WIJEKOON

- Thesis: "Securing Official Documents in a BYOD Environment"
- My research focused on developing a mechanism to secure organizational documents containing confidential information in a Bring Your Own Device (BYOD) environment

Malabe, Sri Lanka

2018 - 2022

Publications

- [2] *'The Poorest Man in Babylon: Detecting and Analyzing Cryptocurrency Investment Scams'*
Muhammad Muzammil, **Abisheka Pitumpe**, Xigao Li, Amir Rahmati, Nick Nikiforakis
International World Wide Web Conference - 2025 (Under Submission)
- [1] *'An Automated Solution For Securing Confidential Documents in a BYOD Environment'*
Abisheka Pitumpe, M.A.F Azra, Poobalan A.V, Janaka Wijekoon, Kavinga Yapa, Mifraz Murthaja
International Conference on Advancements in Computing (ICAC 2021) - **Best Paper Award - Security Track**

Awards & Grants

- 2024 **Student Grant**, VehicleSec'24 - NDSS 2024
2023 **Student Grant**, iMentor Workshop - ACM CCS 2023
2018 -2022 **7 Deans List Awards** , Sri Lanka Institute of Information Technology

Professional Service

2023 **Reviewer**, International Conference on Advancements in Computing

2024 **Vice President**, Women PhDs affinity group

*Sri Lanka
Stony Brook
University*

Industry Experience

Academic Consultant - Cybersecurity, Metana

2022 Helped develop Metana's Cybersecurity Bootcamp curriculum. Metana offers online bootcamps for cybersecurity, blockchain and AI/ML.

Cybersecurity Intern, SCORE Lab - University of Colombo, School of Computing

2019-2020 Conducted Vulnerability Assessments and Penetration Testing on bugzero.io which is a bug-bounty platform.

Sri Lanka

Teaching Experience

STONY BROOK UNIVERSITY

- **Systems Fundamentals (CSE 320)**, Teaching Assistant (Fall'24)
- **Computer Networks (CSE310)**, Teaching Assistant (Spring'24)
- **Software Security (CSE316)**, Teaching Assistant (Fall'23)

CURTIN UNIVERSITY - COLOMBO BRANCH

- **Computer Systems (COMP2000)**, Assistant Lecturer Assistant (Fall'22)
- **Cyber Crime (ISEC3004)**, Assistant Lecturer Assistant (Fall'22)
- **Computing Topics (COMP2005)**, Assistant Lecturer Assistant (Fall'22)
- **Cybersecurity Concepts (ISEC1000)**, Assistant Lecturer Assistant (Fall'22)

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

- **Applied Information Assurance (IE3022)**, Teaching Assistant (2022)
- **Discrete Mathematics (IE2082)**, Teaching Assistant (2022)
- **Network Security (IE3032)**, Teaching Assistant (2022)
- **Information Security Policy and Management (IE3072)**, Teaching Assistant (2022)

Relevant Skills

Programming : Python, C/C++,Java

Utilities : gdb, Git, Wireshark, Autopsy, Burpsuite, Wireshark, Selenium

Systems : Linux,Windows

Networks : Cisco and Cisco IOS-related router configuration

Information Security Risk Assessment Frameworks : ISO 9001:2015, ISO 27005, NIST SP 800-30, OCTAVE-Allegro, ISO 31000

Server Configuration : Windows Server 2003, 2008, and 2012 for Active Directory