

PRIYANSH SINGH

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RESEARCH INTERESTS

Network Security, 5G Cellular Security, 5G Vehicular to Everything Security (CV2X Security)

EDUCATION

Doctor of Philosophy (PhD), Indian Institute of Technology, Delhi (IIT-D) 2022 - Present

Department: Computer Science and Engineering

Advisor: Prof Vireshwar Kumar

Master of Technology (MTech), Indian Institute of Information Technology, Gwalior 2017 - 2019

Specialisation: Information Security

Percentage Scored: 84.8% (Rank 1)

Advisor: Prof Shashikala Tapaswi

Dissertation Title: Detection of Malicious OOXML Documents Using Domain Specific Features

Bachelor of Technology (BTech), Guru Gobind Singh Indraprastha University, Delhi 2012 - 2016

Specialisation: Computer Science and Engineering

Percentage Scored: 74.3%

EXPERIENCE

Junior Research Engineer Oct 2021 - July 2022

Indian Institute of Information Technology, Allahabad

Allahabad, India

- Worked on design components for IoT Security Framework to detect vulnerabilities in generic IoT devices with Dr Suneel Yadav and Dr S. Venkatesan. Also, developed an IoT Testbed to test consumer IoT devices.

Co-founder and External Consultant Apr 2020 - Dec 2020

ulaunch.in, a media platform for the youth

- Developed the core web infrastructure for the platform.
- Lead various creative projects and developed media content surrounding the topic of United Nation Sustainable Development Goals.

Assistant Professor, Computer Science and Engineering Jul 2019 - Sept 2021

ABES Engineering College

Ghaziabad, India

- Taught 'Computer System Security' to over 100 students.
- Co-developed 'Problem Solving with Python' course and successfully delivered it to over 200 students.
- Mentored a class of 68 students for their mini projects in various disciplines of Computer Science and Engineering.

AWARDS AND ACTIVITIES

- Secured 8.0 overall band in International English Language Testing System (IELTS), February 2021.
- Recipient of UGC National Eligibility Test (NET) for Assistant Professor, 2019.
- Lifetime member of IEEE Eta Kappa Nu, Honor Society of IEEE

PUBLICATIONS

- Singh, P., Tapaswi, S., & Gupta, S. (2020). Malware detection in PDF and office documents: A survey. Information Security Journal: A Global Perspective, 29(3), 134-153.
- Gupta, S., Singh, P., Shrotriya, N., & Baweja, T. (2021). LFSR Next Bit Prediction through Deep Learning. Journal of Informatics Electrical and Electronics Engineering (JIEEE), 2(2), 1-9.
- STAR-IoT: A Security Testbed for Auditing Resources in Internet of Things Networks (Under-Review)