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: Dr Vireshwar Kumar

Master of Technology (MTech), Indian Institute of Information Technology, Gwalior   2017 - 2019
Specialisation: Information Security
Percentage Scored: 84.8% (Rank 1)
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)