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
CGPA: 8.48 (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.
- 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)