Gauri Shankar

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PERSONAL

– Fluent in English, Hindi, beginner Punjabi

– Strong interpersonal, collaborative, management, leadership, and effective communication skills.

CURRENT POSITION

Doctoral Fellow   07/2022 - present
**Computer Science and Engineering, Department of Computer Science and
Engineering, National Institute of Technology Raipur, Chhattisgarh, India**

– My current research work is to enhance privacy and security of the decentralized and distributed network systems. More specifically I am working on the Zero-Knowledge proof to improve privacy and focusing on post quantum cryptography.

EDUCATION

– **MTech. in Computer Science and Technology (Cybersecurity)**   07/2019 - 06/2021
Central University of Punjab, Bathinda, Punjab, India

M.Sc. thesis: Enhancement of Privacy and Security in Healthcare

System using Blockchain Technology

– **B.E. Computer Science and Engineering**   08/2014 - 05/2018
Chhattisgarh Swami Vivekananda Technical University, Bhilai

CONTRIBUTIONS TO JOURNALS AND CONFERENCES

Peer-Reviewed Publications

– Gauri Shankar, Liwa H. Ai-Farhani, P. Anitha Christy Angelin, Parvinder Singh, Abdullah Alqahtani, Abha Singh, Gaganpreet Kaur & Issah Abubakari Samori, Improved Multisignature Scheme for Authenticity of Digital Document in Digital Forensics Using Edward-Curve Digital Signature Algorithm, In Security and Communication Networks 2023(5):1-18, April 2023,

Conferences

– Sukhpreet Kaur Gill, Gaganpreet Kaur, Gauri Shankar Dewangan & Veeramanickam Murugappan, Solving the Element Detecting Problem in Graphs via Quantum Walk Search Algorithm (QWSA), Mobile Radio Communications and 5G Networks, Publisher: Springer, Singapore, February 2023

– Dr. Preeti Chandrakar, Gauri Shankar & Narendra K Dewangan, Blockchain Implementation in E-tendering Conference on Use of Smart Contract in Public Procurement and Supply Chain, Ministry of Finance, New Delhi, India, March 2023.

– Shruti Bhatla, Gauri Shankar Dewangan & Maddassar Jalal, A review of usefulness of virtual

reality in treating autistic people, In INNOVATIONS IN COMPUTATIONAL AND COMPUTER TECHNIQUES: ICACCT-2021, Punjab, India, October 2022

<u>Conferences Paper Review</u>

- ICCINS-2022

- ICACCT-2021

- COCOLE-2022 (Technical Program Committee Member)

RESEARCH EXPERIENCE

Relevant MTech Thesis Research 02/2020 - 05/2021
Department of Computer Science and Technology
Central University of Punjab Bathinda

- Patient-centric security and privacy oriented blockchain network model is developed for a healthcare system.

- The Ed25519 digital signature-based Proof of Authenticity consensus is designed.

- Designed a secure storage for large medical data with Elliptic Curve Cryptosystem.

TEACHING AND MENTORING EXPERIENCE

Chandigarh University (India)
Department of Computer Science and Engineering

<u>Assistant Professor</u> 08/2021 – 06/2022

- Teach Computer Network, Database Management System, Data structure. Guided in software/Hardware projects, coordinator for Departmental events and placement cell, additionally mentoring the students. (Number of students: approximately 210).

- Tech Basic of Data Science Using R, in summer training program as value added course. (Number of students: approximately 250).

National Institute of Technology Raipur (India)

<u>Teaching Assistant</u> Academic years 2022-2023

Course name: Blockchain Technology

- Assisted in developing course content, assignments questions, exam paper for 7th semester students. (Number of students: approximately 92).

Course name: Cryptography and Network Security

- Assisted in developing course content, assignments questions, exam paper for 6th semester students. (Number of students: approximately 114).

RELEVANT ADDITIONAL COURSES AND SKILLS

- Advance Distributed System 07/2022 - 10/2022
  Indian Institute of Technology Madras

- Blockchain Business Models 03/2022
  Duke University

- IBM Cybersecurity Analyst Assessment   05/2022
  IBM

- CompTIA Network+   07/2017
  Cybrary

- FDP on Blockchain in Smart City: Emerging Technologies for the Next Decade and Beyond   09/2022
  National Institute of Technology Raipur

- Faculty Development Programme on Blockchain Technology   10/2020
  National Institute of Technology Meghalya

- Faculty Development Programme on Internet of Things (IoT),   10/2020
  Indian Institute of Technology Palakkad

- Faculty Development Programme on "Data Sciences   12/2019
  Central University of Punjab

- Faculty Development Programme on Artificial Intelligence   12/2019
  Central University of Punjab

FUNDING AND AWARDS

- Awarded Institute Doctoral Fellowship for 3 Years (July 2022 to June 2025) at NIT Raipur.

- Win the Smart India Hackathon at conducted by Central University of Punjab Bathinda, (February 2020).

DEPARTMENTAL/UNIVERSITY SERVICE

- Coordinator Contributed in ABET accreditation   10/2021
  Chandigarh University
- Competition Coordinator   02/2022 - 06/2022
  Chandigarh University,
- Core Committee Member of Code Chef Learning Program   08/2021 – 01/2022
  Chandigarh University

PROFESSIONAL MEMBERSHIPS

- Member of the International Association for Cryptologic Research (IACR)

- Member of the Cryptology Research Society of India (CRSI)

- Member of the Institute of Electrical and Electronics Engineers (IEEE).

- Member of the Association for Computing Machinery (ACM).

- Member of the Association of Professional Engineers and Geoscientists of Alberta (APEGA).