Pranav Verma
E-mail: pranav.verma.dssd@gmail.com

Objective

Seek challenging assignments and responsibilities with an opportunity for growth and career advancement. Learn, unlearn and relearn.

Education

Doctor of Philosophy in Information Security and Data Privacy from Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar.
Year: 2017-present

Master of Technology in Information and Network Security from Institute of Technology, Nirma University, Ahmedabad.
Year: 2015

Post-Graduate Diploma in System Software Development (PGDSSD) from Center for Development of Advanced Computing (C-DAC), Hyderabad.
Year: 2012.

Bachelor of Engineering in Computer Science and Engineering, from Chhattisgarh Swami Vivekananda Technical University, Bhilai, Chhattisgarh,
Year: 2012

Employment History

DA-IICT, Gandhinagar

– Teaching Assistant. **January 2017 to Present**

e-Infochips, Ahmedabad

– Corporate Trainer: Object Oriented Programming with C++. **March 2022**

Artigen software training and development, Ahmedabad

– Course trainer: Data Science, Machine Learning, Python. **April 2021**

Silver Oak College of Engineering and Technology, Ahmedabad

– Assistant Professor. **July 2015 to August 2016**

Programming

C, C++, python, Sagemath, SEAL, NS-2.3+, NLTK, Blockchain.

Academic Projects

Privacy Preserving Recommender Systems January 2017 - Present
It provides recommendations without compromising users' privacy. We are working on efficient and robust homomorphic encryption-based PPRS, which allows computations over encrypted data. My work focuses on new challenges in the existing PPRS and provides the solution to identified issues.

Agent Based Anomaly Detection in MANET August 2014 - May 2015
Designed and implemented a Random Walk Detection Algorithm-based approach to detect Black Hole attack on MANET using NS-2.35 simulator.

Malware Scanner June 2012 - August 2012
Detect if a file is genuine or not by verifying the file headers using Signature-Based Detection techniques.

Publications

- Verma, P., Mathuria, A., and Dasgupta, S. (2021, December). Faster Private Rating Update via Integer-Based Homomorphic Encryption. ICISS 2021 (pp. 218-236). Springer, Cham.
- Verma, P., Mathuria, A. and Dasgupta, S. Item-based PPRS with Offline Users and Reduced Trust Requirements. ICISS 2019. LNCS, vol 11952. Springer, Cham.
- Verma, P., Vaishnav, H., Mathuria, A. and Dasgupta, S., 2019, January. An Enhanced Privacy-Preserving Recommender System. In International Conference on Security & privacy (pp. 247-260). Springer, Singapore.
- Verma, P., Makwana, A. and Khan, S., 2015. Cyber security: A survey on issues and solutions. In International Journal of Advanced Research in Engineering and Technology. Volume 6, Issue 4 pp.51-59.
- Verma, P. and Lohiya, R., 2015. A comprehensive survey on: quantum cryptography. In International Journal of Advanced Research in Engineering and Technology, pp.2214-2219.

Other Activities

- Received travel grant worth THB 4000 to attend "Machine Learning Research School 2019" organised by Digital Economy Promotion Agency (DEPA), Bangkok, Thailand.
- Received ACM student membership.
- Delivered a seminar on "Phishing" during M. Tech. in Institute of Pharmacy NU.
- Participated in the team selected for the ACM International Collegiate Programming Contest (ICPC)-2014 national level round.
- Earned NCC (National Cadet Corps) 'A' certificate and CATC (Combined Annual Training Camp) certificate.

Interests

- Exploring new places, cooking, gardening.