

Dr. S DEVIDAS

Assistant Professor
Dept. of MBC, NIT Bhopal

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Career Objective

- Seeking a challenging role in academia or industry where I can leverage my expertise in Blockchains to drive innovation, contribute to advancements in technology, and collaborate with interdisciplinary teams. Committed to staying at the forefront of emerging trends and making a meaningful impact in the field of computer science.

Research

- Conducted extensive research on blockchain user identity privacy, explored cryptographic techniques and privacy-enhancing technologies for blockchains. User identity privacy may be leaked in blockchains through transaction patterns and de-anonymization techniques. Persistent addresses, correlated transaction timestamps, or external data linkage can expose users' identities. As a part of my doctoral degree, proposed signature schemes to enhance user identity privacy in public and private blockchains. Currently I am exploring the possibility of using AI and ML in blockchains.

Education

- 2016 – 2023 **Ph.D., University of Hyderabad, Blockchains.**
Thesis title: *Signature Schemes for Privacy Protection in Blockchains.*
- 2010 – 2012 **M.Tech. Jawaharlal Nehru Technological University Hyderabad.**
Computer Science and Engineering.
- 2007 – 2010 **M.C.A. Jawaharlal Nehru Technological University Hyderabad.**
Computer Applications.
- 2004 – 2007 **B.Sc. Osmania University Hyderabad.**
Computer Science.
- 2002 – 2004 **Intermediate. Andhra Pradesh State Board of Intermediate Education.**
Mathematics, Physics, Chemistry.
- 2001 – 2002 **SSC. Board of Secondary Education Andhra Pradesh.**
Secondary School Certificate.

Employment History

- 2024 – Till date  **Assistant Professor** Mathematics, Bioinformatics and Computer Applications (MBC) Department, Maulana Azad National Institute of Technology Bhopal (NIT Bhopal), Madhya Pradesh, India.
- 2017 – 2022  **Subject Matter Expert.** DBMS subject expert for GATE (CS & IT) at Raudra Eduser-vices Private Limited (Ravindra Babu Ravula).
- 2013 – 2016  **Assistant Professor.** Computer Science and Engineering Department, Sudheer Reddy College of Engineering, Nizamabad, Telangana, India.

Research Interest

-  Blockchains
-  Smart Contracts
-  CyberChains
-  Blockchain Intelligence

Research Publications

Journal Articles

- 1 S. **Devidas**, N. R. Rekha, and Y. Subba Rao, "Identity verifiable ring signature scheme for privacy protection in blockchain," *International Journal of Information Technology*, vol. 15, no. 5, pp. 1–10, 2023.
- 2 S. **Devidas**, S. R. YV, and N. R. Rekha, "A decentralized group signature scheme for privacy protection in a blockchain," *International Journal of Applied Mathematics and Computer Science*, vol. 31, no. 2, pp. 353–364, 2021.

Conference Proceedings

- 1 S. **Devidas**, N. Rukma Rekha, and Y. Subba Rao, "Dynamic decentralized group signature scheme for privacy protection in blockchain," in *International Conference on Innovative Computing and Communications: Proceedings of ICICC 2022, Volume 3*, Springer, 2022, pp. 745–760.
- 2 S. **Devidas**, N. Rukma Rekha, and Y. Subba Rao, "Decentralized framework for record-keeping system in government using hyperledger fabric," in *Proceedings of the Third International Conference on Computational Intelligence and Informatics: ICCII 2018*, Springer, 2020, pp. 663–672.

Invited Talks and Presentations

- 2022  Presented a research paper entitled "Dynamic Decentralized Group Signature Scheme for Privacy Protection in Blockchain" in 5th ICICC, organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with NIT Patna and Korea Institute of Digital Convergence, South Korea and University of Valladolid, Spain from February 19-20, 2022.
- 2019  Delivered a talk on "Permissioned Blockchains: Hyperledger Fabric" at one week AICTE Sponsored STTP on "Security, Privacy and Trust Issues in Blockchain Technology" organized by Dept. of CSE, GMR Institute of Technology from October 21-26, 2019.

Invited Talks and Presentations (continued)

- 2018  Presented a research paper entitled "Decentralized Framework for Record-Keeping System in Government using Hyperledger Fabric" in 3rd International Conference on Computational Intelligence and Informatics (ICCI-2018) organized by Dept. of CSE, JNTUH from December 28-29, 2018.

Technical Skills

- Languages  Strong reading, writing and speaking competencies for English, Hindi, Telugu.
- Coding  C, C++, Java, Python, Solidity, Golang, SQL,
- Databases  MySQL, Oracle.
- Web Dev  HTML, CSS, JavaScript.
- Misc.  Academic research, teaching, training, $\text{\LaTeX}$ typesetting and publishing.

Awards and Achievements

- 2019  **CSIR SRF-Direct**, Council of Scientific & Industrial Research.
(Certificate No.: 09/414(1194)/2019.EMR-I).
-  **UGC NET**, National Eligibility Test for Assistant Professor.
(E-Certificate No.: JUN19U52379).
- 2018  **UGC NET**, National Eligibility Test for Assistant Professor.
(E-Certificate No.: 41424/(NET-DEC 2018)).
- 2014  **SET-TS & AP-2014**, State Eligibility Test for Assistant Professor.
(Certificate No.: 3099/SET-TS&AP/FEB/2015).

Memberships of Professional Bodies

- CRSI  Cryptology Research Society of India (L/0615)
- IAENG  International Association of Engineers (164137)
- UACEE  Universal Association of Computer and Electronics Engineers (AM10100054383)

Conferences/Workshops/FDPs Attended

- 2020  Participated in FDP on "Cyber Security and Forensic" organized by Dept. Computer Science and Information Technology, MANUU, Hyderabad from February 17-18, 2020.
-  Participated in Bootcamp on "Blockchain:Hands-On Ethereum Development" organized by De-centrum in association with MJCET, Hyderabad on February 15, 2020.
- 2019  Participated in Two Week FDP on Blockchain Technologies and Its Applications (BCTA) sponsored by DST (ICPS Division) organized by Dept. of CSE, NIT Hamirpur.

Conferences/Workshops/FDPs Attended (continued)

- Participated in "Workshop on Cryptography and Coding Theory" sponsored by TEQIP Phase III organized by Dept. of Mathematics, NIT Warangal from January 28, 2019 to February 1, 2019.
- Participated in Two Day "Hands-On Workshop on Blockchain Technology" in Association with TCS organized by Dept. of CSE, JNTUH.
- Participated in "20th International Conference on Cryptology India (Indocrypt-2019)" organized by C.R.Rao Advanced Institute of Mathematics, Statistics and Computer Science Hyderabad from December 15-18, 2019.
- Participated in FDP on "Sensor Networks, Internet of Things and Internet of Everything" organized by Dept. of Computer Science and Information Technology, MANUU from November 25, 2019 to December 8, 2019.
- 2018 ■ Participated in "IISc-IACR School on Information-theoretic Cryptography" organized by Department of Computer Science and Automation, IISc Bangalore from January 4-8, 2018.
- Participated in National Workshop on "Blockchain Technologies" organized by C-DAC, Hyderabad in association with MeitY and JNTUH on June 22, 2018.
- Participated in Seminar on "Cyber Security" organized by C.R.Rao Advanced Institute of Mathematics, Statistics and Computer Science Hyderabad on February 9, 2018.
- Participated in "National Workshop on Cryptology (NWC-2018) organized by C.R.Rao Advanced Institute of Mathematics, Statistics and Computer Science Hyderabad from September 5-7, 2018.
- 2017 ■ Participated in "National Workshop on Cryptology (NWC-2017) held at Dept. of CSE, NIT Tirchirapalli from August 28-30, 2017.
- Participated in Workshop on "Topics in Linear Algebra and Machine Learning" organized by School of Computer and Information Sciences, University of Hyderabad from October 12-13, 2017.
- Participated in "18th International Conference on Cryptology India (Indocrypt-2017)" organized by Dept. of CSE, IIT Madras from December 10-13, 2017.
- 2016 ■ Participated in FDP on "Foundations of Cryptography" jointly organized by Electronics and ICT, ISEAP-Phase II and Dept. of CSE, NIT Warangal from December 19-30, 2016.