

## CURRICULUM VITAE

### ROHIT KUMAR DAS

#### Corresponding Address

AB2, 224/D  
School of Computer Science and Engineering  
VIT-AP University, Andhra Pradesh - 522237  
email: rohitdas.it.13@gmail.com | rohitkumar.d@vitap.ac.in  
Phone No. +91-9706563418  
Webpage: <https://rohitdas01.github.io/>



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#### Experience

##### **Assistant Professor**

School of Computer Science and Engineering  
VIT-AP University | Andhra Pradesh

11/05/2021 – Present

##### **Assistant Professor**

Department of Computer Science and Engineering  
Sikkim Manipal Institute of Technology | Sikkim

01/08/2020 – 05/05/2021

##### **Guest Lecturer**

MIT University | Shillong, Meghalaya

08/2018 - 12/2018

##### **Guest Lecturer**

Mizoram University | Aizawl, Mizoram

08/2014 - 07/2016

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#### Education

##### **Ph.D.:** Information Technology

**Thesis Title:** *Design of Software Defined Network (SDN) based Controller for Internet of Things (IoT)*

2021

North-Eastern Hill University | Shillong | Meghalaya | India

##### **M.Tech:** Information Technology Assam

2014

University | Silchar | Assam | India

CGPA: 7.55

##### **B.Tech:** Information Technology

2012

Mizoram University | Aizawl | Mizoram | India

CGPA: 7.235

#### Patent

a) **Title:** Multi-Purpose Switch Adaptable for a Specific SDN Based IoT Architecture,  
**Inventor:** Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,  
**Application No.** 201931049931

b) **Title:** An improved SDN based IoT system,  
**Inventor:** Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,  
**Application No.** 202131017791

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## Publications:

### Journal Articles

1. **Das, R. K.**, Ahmed, N., Maji, A. K., & Saha, G. (2022). Nx-IoT: Improvement of conventional IoT Framework by incorporating SDN Infrastructure. *IEEE Internet of Things Journal*, DOI: 10.1109/JIOT.2022.3215650. (**SCI Impact factor 10.238**)
2. Rahman, M. S., & **Das, R. K.** (2022). RTID: On-demand real-time data processing for IoT network. Vol. 62, Part 7, pp. 4721-4725, *Materials Today: Proceedings*, Elsevier, DOI: 10.1016/j.matpr.2022.03.168 (**Scopus**)
3. **Das, R. K.**, Maji, A. K., & Saha, G. (2022). SD-6LN: improved existing internet of things framework by incorporating software defined network approach. *International Journal of Grid and Utility Computing*, Vol. 13, No. 4, pp. 406-413 (2022), DOI: 10.1504/IJGUC.2022.125144 (**Scopus**)
4. **Das, R. K.**, Ahmed, N., Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). 6LESDN: An Edge-Based Software-Defined Network for Internet of Things. *IEEE Internet of Things Journal*, Vol. 7, No. 8, pp. 7725-7733, 2020, DOI: 10.1109/JIOT.2020.2990936 (**SCI Impact factor 10.238**)
5. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). FT-SDN: A Fault-Tolerant Distributed Architecture for Software Defined Network. *Wireless Personal Communications*, Vol. 106, No. 2, pp. 1045-1066, 2020, DOI: 10.1007/s11277-020-07407-x (**SCIE Impact factor 2.017**).
6. Pohrmen, F. H., **Das, R. K.**, & Saha, G. (2019). Blockchain-based security aspects in heterogeneous Internet-of-Things networks: A survey. *Transactions on Emerging Telecommunications Technologies*, Vol. 30, No. 10, pp. e3741, 2019, DOI: 10.1002/ett.3741 (**SCI Impact factor 3.31**).

### Conference Proceedings

1. **Das, R. K.**, Jha, M., & Harizan, S. (2022). Performance Appraisal of 6LoWPAN and OpenFlow in SDN Enabled Edge-Based IoT Network. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 21-29). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9\_3
  2. Harizan, S., Kuila, P., & **Das, R. K.** (2022). HSA Based Sensor Nodes Deployment Strategy for Coverage and Connectivity in WSNs. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 73-81). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9\_8
  3. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Proceedings of the International Conference on Computing and Communication Systems* (pp. 463-470). Springer, Singapore. DOI: 10.1007/978-981-33-4084-8\_44
  4. **Das, R. K.**, Maji, A. K., & Saha, G. (2021). SD-6LN: Improved Existing IoT Framework by Incorporating SDN Approach. In *International Conference on Innovative Computing and Communications* (pp. 599-606). Springer, Singapore. DOI: 10.1007/978-981-15-5113-0\_48
  5. Marshoodulla, S. Z., **Das, R. K.**, & Saha, G. (2019). Big Data Issues in SDN Based IoT: A Review. In *International Conference on Big Data, Machine Learning, and Applications* (pp. 72-82). Springer, Cham. DOI: 10.1007/978-3-030-62625-9\_7
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6. Pohrmen, F. H., **Das, R. K.**, Khongbuh, W., & Saha, G. (2018, July). Blockchain-based security aspects in Internet of Things network. In *International Conference on Advanced Informatics for Computing Research* (pp. 346-357). Springer, Singapore. DOI: 10.1007/978-981-13-3143-5\_29
7. **Das, R. K.**, Maji, A. K., & Saha, G. (2019). Prospect of Improving Internet of Things by Incorporating Software-Defined Network. In *Advances in communication, devices and networking* (pp. 537-544). Springer, Singapore. DOI: 10.1007/978-981-13-3450-4\_58
8. Chawngsangpuui, R., Lalchhanhima, R., Regmi, R., Srivastava, M., & **Das, R. K.** (2016, March). Wi-Fi Control Bot with Real-Time Video Streaming. In *2016 3rd International Conference on Recent Advances in Information Technology (RAIT)* (pp. 570-575). IEEE. DOI: 10.1109/RAIT.2016.7507961
9. **Das, R. K.**, Das, B., & Roy, S. (2014, April). Performance appraisal of learning automata in networks. In *2014 Fourth International Conference on Communication Systems and Network Technologies* (pp. 1110-1113). IEEE. DOI: 10.1109/CSNT.2014.227

### Book Chapters

1. **Das, R. K.**, & Roy, S (2022). An ML-Driven SDN Agent for Blockchain-Based Data Authentication for IoT Network. In *Blockchain for IoT* (pp. 155-165). Chapman and Hall/CRC. eBook ISBN: 9781003188247

### Journal Reviewer

- a) IEEE Internet of Things
- b) Wiley Transactions on Emerging Telecommunications Technologies
- c) Springer Wireless Personal Communication
- d) IEEE Transactions on Vehicular Technology
- e) IEEE Sensor
- e) IEEE Transactions on Mobile Computing
- f) IEEE Transactions on Wireless Communications

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### Resource Person

- a) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, Mizoram University, Aizawl, India (27th Sept – 4th October, 2019)
- b) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, North-Eastern Hill University, Shillong, Meghalaya, India (5th Oct – 9th October, 2020)
- c) Latex Workshop, Department of CSE, Sikkim Manipal Institute of Technology, Sikkim, India (8th Oct – 14th October, 2020)
- d) 5 Days New Faculty Orientation programme -- CO/PO/Mapping of CO and PO, Center for Teaching and Learning, VIT-AP University (23rd April 2022 - April 2022)

### Invited Talks:

- a) Drawbacks of IoT and its improvement, Computer Science and Engineering Department, ICFAI University Tripura (19th July 2022)
  - b) IoT-enabled Smart Sustainable Cities, Department of Information Technology, IPSG College of Arts & Science, Coimbatore (28th Feb 2023)
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**Workshop Organized** a) FIVE Day Faculty Workshop on “Research Proposal Writing & Funding Opportunities” from 1st March - 5th March 2022, VIT-AP University, Amaravati, Andhra Pradesh

b) One Day National Level Workshop on “CUDA Programming with Python” sponsored by NVIDIA Deep Learning Institute (DLI) – 9<sup>th</sup> May 2022, VIT-AP University, Amaravati, Andhra Pradesh

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**Professional Service** a) Technical Program Committee for 4th edition of the International Conference on Computing and Communication Systems, 13th - 15th October, 2022, Organized by the Department of Information Technology, North-Eastern Hill University (NEHU), Shillong, Meghalaya, India (I3CS 2022).

b) Technical Program Committee for International Conference on Smart Education, Health and ICT, 14th - 15th April 2022, Oxford, United Kingdom (SHI 2022).

c) Technical Program Committee for 3rd International Conference on Advanced Computational and Communication Paradigms, Organized by the Dept of Computer Science and Engineering Sikkim Manipal Institute of Technology (SMIT), Majitar, Sikkim-737136, India (ICACCP-2021).

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**Certifications** a) Achieved A+ grade from Hewlett-Packard (HP) Training Centre, Jaipur in Network Administration Training.

b) Awarded National Scholarship under TEQIP-II project, Government of India.

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**Professional Membership** a) IEEE

b) ACM

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**Personal Details** Nationality: Indian  
Date of Birth: 05<sup>th</sup> September 1991  
Father’s Name: Sisir Kumar Das (L)  
Mother’s Name: Swapna Das  
Status: Married  
Spouse Name: Dr. Monali Bordoloi

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<b>Reference:</b>	<b>Prof. Goutam Saha</b> Professor Dept. of IT, NEHU, Shillong, Meghalaya Ph No. 7980904316	<b>Dr. Arnab Kumar Maji</b> Assistant Professor Dept. of IT, NEHU, Shillong, Meghalaya Ph No. 9436333083
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*I hereby declare that all the information given is correct to the best of my knowledge.*



(ROHIT KUMAR DAS)  
Dated: 31st March, 2023

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