



**Dr. T Gunasekhar**

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**EDUCATION**

**Jan 2014-July 2017**

**Doctor of Philosophy**, Department of Computer Science and Engineering, K L University,  
Vijayawada, India.

**Thesis title**

A Framework for Prevention and Detection of Insider attacks in cloud Infrastructure

**Dec 2011-June 2013**

**Master of Technology**, Department of Computer Science and Engineering, Sree Vidyanikethan  
Engineering College, JNT University, Anantapur, India.

**Course competence**

Achieved First Class with **Distinction** and **awarded grade ‘O’**

Module Include: Operating Systems, Cloud Computing, Data Structures, Information Security,  
Theory of Computation.

**Sep 2007–April 2011**

**Bachelor of Technology in Information Technology**, Dept. of Information Technology, JNT  
University, Anantapur, India.

**Course competence**

Achieved First class final year **Dissertation work**.

Modules include: C Programing, Software Engineering, Embedded Systems, Network Security,  
Computer Networks, Data Base Management Systems, Computer Organization, Micro Processors  
and Controllers, Unix Systems.

**EXPERIENCE**

**July 2021-Till**

**Experian,India.**

**Position:**

**DevSecOps-Security SME.**

**Software Engineer**

**Aug 2017-June 2021**

**Koneru Lakshmaiah Educational Foundation, Guntur, India.**

**Position:**

Working as Associate Professor, Dept of CSE.

**Associate Professor**

**Oct 2015-Sep2017**

**K L University, Guntur, India.**

**Position: Junior**

Design and Development of an Effective Privacy Preserving Data Mining Technique for Cardiac,  
Cancer and Diabetic Healthcare

**Research Fellow**

**Jan 2014-Sep 2015**

**K L University, Guntur, India.**

**Position:**

A Framework for Prevention and Detection of Insider attacks in Cloud Infrastructure

**Research Scholar**

**RESEARCH EXPERTISE**

- Cloud Computing
- Distributed Computing
- Edge computing
- Operating Systems
- TPM-based Computing

## **PUBLICATIONS**

1. Dey, N.S. and **Gunasekhar, T.**, Bio-Inspired Load Balancing Strategy for Cloud-Based Data Centre with Predictive Machine Learning Approach and Comparative Analogies, **IEEE Transactions on Evolutionary Computation (IF=11.16).(Communicated)**
2. Nikhil, S.G. and **Gunasekhar, T.**, Current Issues, Open research challenges, Future trends in Cloud Computing. **Materials today: Proceeding** (In Press).
3. Dey, N.S. and **Gunasekhar, T.**, 2019. A Comprehensive Survey of Load Balancing Strategies Using Hadoop Queue Scheduling and Virtual Machine Migration. **IEEE Access**, 7, pp.92259-92284. (IF=4.0098)
4. Bezawada, A., Marella, S.T. and **Gunasekhar, T.**, 2018. A Systematic Analysis of Load Balancing in Cloud Computing. *International Journal of Simulation--Systems, Science & Technology*, 19(6).
5. **Gunasekhar, T.**, K. Thirupathi Rao, A Novel SVM Based Kernel Function for Insider Detection in Cloud Infrastructure, *Journal of Advanced Research in Dynamical and Control Systems*,9(3), pp. 56-63,2017.
6. **Gunasekhar, T.**, K. Thirupathi Rao, Prevention and Detection of Insider attacks in cloud infrastructure using hardware assisted Method, *Journal of Advanced Research in Dynamical and Control Systems*,9(4), pp. 81-87,2017.
7. Kumari, D.A. and **Gunasekhar, T.** A Novel algorithm for data Perturbation for Privacy Preserving Healthcare Databases. *International Journal of Computer Science and Information Security*, Vol. 14No.10,2016
8. **Gunasekhar, T.**, K. Thirupathi Rao, P. Saikiran, and PV S. Lakshmi. "A Survey on Denial of Service Attacks." (2014).
9. **Gunasekhar, T.**, Rao, K.T., Reddy, V.K., Kiran, P.S. and Rao, B.T., 2015. Mitigation of Insider Attacks through Multi-Cloud. *International Journal of Electrical and Computer Engineering*, 5(1),p.136.
10. **Gunasekhar, T.** and Rao, K.T., 2014. EBCM: Single encryption, multiple decryptions. *International journal of Applied Engineering Research*, 9(19), pp.5885-93.
11. Anusha, M., Vemuru, S. and **Gunasekhar, T.**, 2015. Transmission protocols in Cognitive Radio Mesh Networks. *International Journal of Electrical and Computer Engineering*, 5(6).
12. Sastry, K.N., Rao, B.T. and **Gunasekhar, T.**, 2015. Novel Approach for Control Data Theft Attack in Cloud Computing. *International Journal of Electrical and Computer Engineering*, 5(6).
13. Kumari, D.A. and **Gunasekhar, T.**, 2016. A Reconstruction Algorithm using Binary Transform for Privacy-Preserving Data Mining. *Indian Journal of Science and Technology*, 9(17).
14. Kumar, R.P., Babu, J., **Gunasekhar, T.** and Bhushan, S.B., 2015. Mitigating Application DDoS Attacks using Random Port Hopping Technique. *International Journal of Emerging Research in Management & Technology*, 4(1), pp.1-4.
15. Kumar, M.D., Basu, M.T. and **Gunasekhar, T.**, 2015. Meshing VANEMO protocol into VANETs. *International*

*Journal of Applied Engineering Research*, 10(12), pp.31951-31958.

16. Karthik, K., **Gunasekhar, T.**, Meenu, D. and Anusha, M., 2016. A Study on IP Network Recovery through Routing Protocols. *Indonesian Journal of Electrical Engineering and Informatics (IJEI)*, 4(3), pp.176-180.
17. Reddy, C.V.S., Rao, G.S.N., Vurukonda, N. and **Gunasekhar, T.**, 2016. A Novel Technique for Optimal Power Allocation Efficient Spectrum Sharing Radio Cognitive Networks. *Indian Journal of Science and Technology*, 9(47).
18. V Suman venkata sai, K.Gowthami, N.M.V.Raghu shyam, K Thirupathi Rao, **T Gunasekhar**, N. Sarada, "a systematic survey on dynamic schedulers in hadoop", *Journal of Advanced Research in Dynamical and Control systems*, 2017.
19. Rao, K.T., Alekhya, M., Pavani, M.S., Kumar, M.N., **Gunasekhar, T.** 'A framework for mitigating insider attacks in cloud infrastructure", *International Journal of Pure and Applied Mathematics*, 2017.

### **CONFERENCE PRESENTATIONS**

1. **Gunasekhar, T.**, K. Thirupathi Rao, and M. Trinath Basu. "Understanding insider attack problem and scope in cloud." *Circuit, Power and Computing Technologies (ICCPCT)*, 2015 International Conference on. IEEE, 2015.
2. Anusha, M., Srikanth Vemuru, and **T. Gunasekhar**. "TDMA-based MAC protocols for scheduling channel allocation in multi-channel wireless mesh networks using cognitive radio." *Circuit, Power and Computing Technologies (ICCPCT)*, 2015 International Conference on. IEEE, 2015.
3. **T.Gunasekhar**, "A Survey on IP Network Recovery through Routing Protocols" National Conference on Advanced Computing Applications, S V University, Tirupati, Feb 2013
4. **T.Gunasekhar**, "Secure Streaming Media Through Digital Rights Management", National Conference on Recent Trends in Information Technology, P V P Siddhartha Institute of Technology, Feb 2013.
5. **T.Gunasekhar**, "Modeling and Defense of E-mail Worms", National conference on Advanced Computing and Information Technology, Jerusalem College of Engineering, May 2013.
6. **T.Gunasekhar**, "Modeling and Defense of E-mail Worms", National conference on Advanced Computing and Information Technology, Jerusalem College of Engineering, May 2013.

### **BOOKS/PATENTS**

1. *Detection and Mitigation of Insider Attacks in a Cloud Infrastructure: Emerging Research and Opportunities*, Advances in Information Security, Privacy, and Ethics (AISPE), IGI Global Publications, 2019.
2. *An Empirical survey on Load Balancing: A Nature Inspired Approach*, Scheduling Problem - New Applications and Trends. Intech Open, 2019.
3. **A Framework for Insider attack prevention in cloud Infrastructure through Trusted Cloud Computing**, Patent applied, 2019.

## **CERTIFICATIONS**

1. **ServiceNow- Certified System Administrator**
2. Architecting on AWS- Coursera
3. Getting Started with AWS Machine Learning- Coursera
4. Cloud Computing Applications- Coursera
5. Cloud Computing Applications, Part 2 : Big data and Applications- Coursera
6. Cloud Networking-Coursera

## **TOOLS AND CLOUD PLATFORMS**

1. Amazon Web Services(AWS)
2. Eucalyptus
3. OpenStack
4. Google Cloud Platform(GCP)
5. CloudSim

## **MEMBERSHIPS**

- IEEE Professional Membership
- ACM Member
- CSI Member

## **PERSONAL DETAILS**

- Father name: Thummuru Mani
- Date & place of Birth: 13<sup>th</sup> June 1990, Chittoor, Andhra Pradesh, India
- Gender: Male
- Citizenship: Indian

## **REFERENCES**

### **Professor K. Thirupathi Rao**

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Lakshmaiah University  
Vaddeswaram, Guntur, 522502  
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### **Professor V. Ramesh**

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