### Kaptan singh

### Mobile: +91-9826524212; Email: kaptan2007@gmail.com

Address of Communication: Date of Birth: 20th March 1982

H. No. 17 Barkhedi Khurd Bhadbhada Road Gender / Nationality: Male / Indian

Bhopal, Madhya Pradesh, India - 462044

Academic Qualification

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| --- | --- |
| **2013-2020** | Maulana Azad National Institute of Technology, Bhopal, MP  **Doctor of Philosophy** (Thesis Submitted) |
| **2008-2011** | Truba Institute of Engineering & Information Technology, Bhopal, MP  **Master of Engineering**, Department of Computer Science & Engineering, |
| **2001-2005** | Barkatullah University Institute of Technology, Bhopal, MP  **Bachelor of Engineering**, Department of Computer Science & Engineering |

Professional Experience: Total: 16Years

**January 2011-Present**

**Truba Institute of Engineering and Information Technology, Bhopal, M.P, India**

Assistant Professor, Computer Science & Engineering, January 2011-Present

**Duties:** Teaching, Management

**Major Responsibilities:** All the Management and Academic Activities of the Truba Group,

AICTE Documentation Work since last 05 years.

PG Coordinator (CSE Department)

Chairman of Anti Ragging and Discipline Committee.

Industrial Training Coordinator.

ERP Technical Coordinator.

**July 2007 – July 2008**

**Truba Institute of Engineering and Information Technology, Bhopal, M.P, India**

Lecturer, Computer Science & Engineering,

**Duties:** Teaching, Management

**Major Responsibilities:** All the Management and Academic Activities of the Truba Group,

Member of Anti Ragging Committee.

Member of Discipline Committee.

**August. 2006 - July 2007**

**Samrat Ashok Technological Institute, Vidisha, MP 464001**

Lecturer, Computer Science & Engineering,

**Duties:** Teaching, Management

Technical Papers Presented/Published at National / International Conferences /Journals:

1. Zeba Malik, Amit Saxena, **Kaptan Singh**, “Designing a Secure IOT data Encryption algorithm for Smart Environmental Monitoring System” International Conference on Advances in Technology, Management & Education (IEEE Conference), 2021
2. Shipra Singh, **Kaptan Singh**, Amit Saxena “Remaining useful life (RUL) prediction for FDIA on IoT sensor data using CNN and GRU” International Conference on Advances in Technology, Management & Education (IEEE Conference), 2021
3. Shipra Singh, Kaptan Singh, Amit Saxena Security Domain, Threads, Privacy Issues in the Internet of Things(IoT): A survey, Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) (Scopus Indexed), 2020
4. Namrata Vijay, **Kaptan Singh,** Amit Saxena, “A Systematic Literature Review of Various Digital Signature Techniques”, International Journal of Computer Sciences and Engineering, Vol.8, Issue.8, 2020, pp. 33-37.
5. Rupal Yadav, **Kaptan Singh,** Amit Saxena, “Hybrid Cryptographic Solution to Overcome Drawbacks of RSA in Cloud Environment”, International Journal of Computer Sciences and Engineering, Vol.8, Issue.8, 2020, pp. 56-60.
6. Rupal Yadav, Amit Saxena, **Kaptan Singh,** “Privacy Concerns Impact in Cloud Computing Environment”, International Journal of Computer Applications, Vol. 176 – No. 37, 2020, pp. 11-15.
7. Kaveri Bhatt, Amit Saxena, **Kaptan Singh**, Implementation of Big-Data Applications Using Map Reduce Framework, International Journal of Engineering and Computer Science, 2020
8. **Kaptan Singh**, Deepak Singh Tomar, “Performance Evaluation of RPL, CoAP and 6LoWPAN Protocol for different time Interval and PDR in IoT Environment”, International Journal on Emerging Technologies **(Scopus Indexed)**, 2020, pp. 351-358
9. **Kaptan Singh**, Dr. Deepak Singh Tomar, “WoT-UAF: User authorization framework of the web of things”, International Journal of Innovative Technology and Exploring Engineering (Scopus Indexed), Volume-8, Issue-11S, Sep. 2019, pp. 606-612
10. Karuna Sahay, **Kaptan Singh**, Amit Saxena, “Intelligent Opinion Polarity and Analysis in Discovering Product Related Customer Reviews”, Journal of Emerging Technologies and Innovative Research Volume 6, Issue 6, Jun. 2019.
11. Karuna Sahay, **Kaptan Singh**, Amit Saxena, “Intelligent Opinion Polarity and Analysis in Discovering Product Related Customer Reviews: A Survey”, International Journal of Computer Sciences and Engineering, Vol.-7, Issue-6, June 2019, pp. 1139-1143.
12. Soniya Raghu, Amit Saxena, **Kaptan Singh**, “Need of Security in Health Care Automation: Survey Report”, International Journal for Research in Applied Science & Engineering Technology, Volume 7 Issue V, May 2019, pp.3127-3130.
13. Soniya Raghu, Amit Saxena, **Kaptan Singh**, “A Implementation of Security model to automate Health Care Industry using Cloud Computing”, International Journal of Research and Analytical Reviews, Volume 6, Issue 2, May 2019, pp. 49-53.
14. Atul Kumar Mishra, Amit Saxena, **Kaptan Singh**, “Implementation of Question and Answering Retrieval System over Watch Word & Head Word”, International Journal of Computational Engineering Research, Volume, 09, Issue, 3, Mar. 2019, pp. 77-82.
15. Aastha Tiwari, Amit Saxena, **Kaptan Singh**, Deepak Singh Tomar, “Inter-Clustering Communication using PRIM algorithm based on adaptive MCFL in WSN, “international Journal of Research in Electronics and Computer Engineering, VOL. 7 ISSUE 1, 2019, pp. 12-16.
16. Aastha Tiwari, Amit Saxena, **Kaptan Singh**, Deepak Singh Tomar, “A Review: The Architectural Analysis of the Wireless Sensor Network” International Journal of Digital Communication and Analog Signals, Vol. 4: Issue 2, 2018, pp.9-16
17. Souresh. K, A. Saxena, **K. Singh**, D. S. Tomar, “Automatic Route Planning of Robot Based On Plant Grow Optimization”, International Journal of Computer Sciences and Engineering, Vol.-7, Issue-2, Feb 2019, pp. 839-843,
18. Deepak Singh Tomar, **Kaptan Singh** “Layered Architecture, Embedded Technology and Security and Privacy Issues in the Web of Things” International Journal of Research in Management Science and Technology Vol. VII Issue. I, January 2019, 7116-7130.
19. Koushalesh Acharya, Amit Saxena, **Kaptan Singh,** “SOVMM: Survey on Virtual Machine Migration”, International Journal of Computer Applications, Volume 181 – No. 41, February 2019, pp. 43-46.
20. **Kaptan Singh**, Dr. Deepak Singh Tomar, “Architecture, Enabling Technologies, Security and Privacy, and Applications of Internet of Things: A Survey” International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (Scopus Indexed) | 2019
21. Ajay Prakash Sahu, Amit Saxena, **Kaptan Singh** “An Extensive Survey of Intrusion Detection Systems”, International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 06 | June -2017.
22. Ajay Prakash Sahu, Amit Saxena, **Kaptan Singh** “Augment Method for Intrusion Detection around KDD Cup 99 Dataset”, International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 06 | June -2017.
23. Himanshu Shroti, **Kaptan Singh**, Amit Saxena “Improved the Detection Ratio of Cyber Attack Using Feature Reduction Based on Support Vector Machine and Glowworm Optimization”, International Journal of Computer Applications (IJCA), Volume 155, Number 10, December 2016
24. Himanshu Shroti, **Kaptan Singh** “Reduction and Classification of Feature of Cyber Attack Data: Brief Review”, International Journal of Computer Science and Information Technologies (IJCSIT), Volume 7, Issue 4, Number 37, July 2016
25. Sanjay Yadav, **Kaptan Singh**, “Remove the black hole attack in mobile ADHOC network using Threshold based Technique”, International Journal of Computers and Technology Vol. 15, No.12.Oct.2016
26. Sanjay Yadav, **Kaptan Singh**, “A Review of malicious attack in mobile Ad-Hoc network based on power constraints”, Indian Journal of Computer Science and Engineering (IJCSE) Vol.7 No. Jun-Jul 2016
27. **Kaptan Singh**, “Scalable, Robust, Efficient Location Database Architecture Based on the Location-Independent PTNs”, International Conference on Computer Application Pondicherry, India, Jan 27, 2012.

Short Term Courses Attended/Conducted &Organized:

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| 2018 | “DSP & Sensors” Workshop on Faculty Development Program Conducted by National Institute of Technology, Jamshedpur. |
| 2018 | Workshop organized on “RedHat Enterprise Linux 7” conducted by Institute of Technical Education at Truba Institute of Engineering & Information Technology, Bhopal, and M.P. |
| 2018 | Workshop organized on “Oracle Database 12C: SQL/PLSQL Fundamentals (Oracle WDP Training)” conducted by Database Cloud Education & Development Pvt. Ltd. at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2018 | Workshop organized on “Android / Java / HTML 5” conducted by Android Academia at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2017 | Workshop organized on “Oracle Database 11g: PL/SQL Fundamentals (Oracle WDP Training)” conducted by Database Cloud Education & Development Pvt. Ltd. at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2016 | Workshop organized on “Oracle Database 10g: PL/SQL Fundamentals (Oracle WDP Training)” conducted by Database Cloud Education & Development Pvt. Ltd. at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2016 | Workshop organized on “Java Programming Language, Java SE 6” conducted by Android Academia at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2015 | Training Program on “HTML 5, Java Script, CSS3”, Conducted by Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2014 | Workshop organized on “Oracle Database 10g: Introduction to SQL  (Oracle WDP Training)” conducted by Database Cloud Education & Development Pvt. Ltd. at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2014 | Workshop organized on “Oracle Database 10g: PL/SQL Fundamentals (Oracle WDP Training)” conducted by Database Cloud Education & Development Pvt. Ltd. at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2014 | Workshop organized on “Java Programming Language, Java SE 6” conducted by Android Academia at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2014 | Short Term Training Program on “Network Forensics”, ISEA Project, Conducted by MANIT Bhopal, M. P. |
| 2014 | Workshop on Network Enumeration and Security, TEQIP-II Workshop, Conducted by MANIT Bhopal, M.P |
| 2014 | Workshop on Energy Management in Smart Grid through Soft Computing Techniques TEQIP-II Workshop, Conducted by MANIT Bhopal, M.P. |
| 2014 | Workshop on “Dev Opp “, Organized by IBM, Conducted at Truba Institute of Engineering & Information Technology, Bhopal, M.P. |
| 2013 | Recent Trends in Applied\science with Engineering Applications, International Conference, Conducted by Truba Group of Institute, Bhopal, M.P. |
| 2012 | Object Oriented Analysis and Design using UML with Essentials of Rational Software Architect Workshop on Faculty Development Program Conducted by IBM. |
| 2012 | Workshop on Aakash for education ISTE Workshop, Conducted by Indian Institute of Technology, Bombay. |
| 2012 | Introduction to Research Methodology ISTE Workshop, Conducted by Indian Institute of Technology, Bombay. |
| 2012 | Secure Application Development in ASP.net Industrial Training Conducted by Kyrion Digital Securities (P) Ltd. At Truba College, Bhopal |
| 2012 | Cyborg – The Robotics Workshop on Faculty Development Program Conducted by Kyrion Robotics Club at Truba College, Bhopal. |
| 2012 | LoopHole – Ethical Hacking Workshop on Faculty Development Program Conducted by Kyrion Digital Securities (P) Ltd. At Truba College, Bhopal. |
| 2009 | Teaching with MATLAB Workshop Conducted by EC Department to impact specialized training on MATLAB, SATI, Vidisha M.P. |
| 2009 | Information Security in Business Conference on Business Technologies Truba Group of Institute Indore |

Details of Thesis Guided At ME – Level: Completed: 04

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| S. No. | Thesis Title | Name of Student | Enrollment No. |
|  | Strengthen Intrusion Detection Method Using Machine Learning for KDD Cup 99 Dataset | Ajay Prakash Sahu | 0114CS12MT01 |
|  | Improved the Detection Ratio of Cyber Attack using feature reduction based on support Vector Machine and Glowworm Optimization | Himanshu Shroti | 0114CS13ME06 |
|  | Intelligent Opinion Polarity and Sentiment Analysis in Discovering Product Related Customer Review | Karuna Sahay | 0114CS17ME04 |
|  | Predicting Remaining Useful Life (RUL) of FDIA on IoT sensor data using CNN and Regression Techniques | Shipra Singh | 0114CS18ME06 |

Projects Completed

* **Network Management & Linux System Administration**

Job assigned is to administer and maintain the local internet system to meet the demand of the software development section. The task of management and administration work was based upon Linux Platform over Intel Based Servers. Task Assigned includes deploying network services such as:

* Basic Network Services(Telnet-Server/Client & FTP- Server/Client)
* DHCP(Server Setup)
* DNS(Implementation of BIND)
* SAMBA Server (File & Print Service)
* Proxy Server (SQUID Proxy)

**Environment:** RHEL 5.3

**Duration:** 9 Months

* **Website of Target Technology, Bhopal**

The Website is developed by using “Joomla”, Content Management System which is a bundle of MySQL, PHP and Apache.

**Responsibilities:**

* Configuration of Content Management Tool (Joomla), Server
* Designing of Webpages, News Scroller, etc.

**URL:** www.targettechnologies.co.in

**Environment:** Joomla Stand Alone Server v 1.08, a Content Management System which is a bundle of MySQL, PHP, Apache.

* **Website of Apexx International, Bhopal**

The Website is developed by using HTML and Microsoft Excel

**Responsibilities:**

* Configuration of Content, Server
* Designing of Webpages, Database, gif image etc.

**URL:** www.apexxinternattional.com

**Environment:** HTML, MS Excel

* **Website of ShrivijayLaxmi ITI Itarsi**

The website is developed for a private ITI ShrivijayLaxmiItarsi Madhya Pradesh. The website developed by using HTML and MS Excel.

**Responsibilities:**

* Configuration of Content, Server
* Designing of Webpages, Database, gif image etc.

**URL:** www.shrivijaylaxmiiti.com

**Environment:** HTML, MS Excel

Professional Membership

1. Member of **Computer Science Teachers Association** (CSTA), Membership Number: 8698337
2. Member of **International Association of Engineers** (IAENG), (Membership Number is: 147938
3. Member of **International Webmaster Association** (IWA).
4. Member of **Universal Association of Computer and Electronics Engineers (**UACEE),(Membership Number is: SM1010001506)
5. Member of **Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICST)**

Organizational Associations:

1. Associated with **IGNOU** (An International Open and Distance Learning University) as Counselor and Examiner.
2. Associated with **Makhanlal Chaturvedi Rashtriya PatraKarita Evam Sanchar Vishwavidyala** (Open University providing Distant Education) as Evaluator and Paper Setter.
3. Associated with **Rajeev Gandhi Proudyogiki Vishwavidyalaya** as Paper Setter and Evaluator.

Research and Teaching Interests:

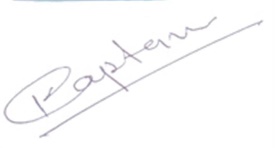
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| --- | --- |
| * Theory of Computation | * Analysis & Design of Algorithms |
| * Data Structure | * Compiler Design |
| * Operating System | * Computer System & Organization |

Skill Sets:

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| Server End | Apache, NFS, NIS, DNS, SQUID, SAMBA |
| Operating System | Windows 9x/XP/2007/2008/2010, RHEL |
| Networking | Configuring and administrating various Linux based Servers for Client/Server Formations |

Duties & Responsibilities performed at TIEIT, Bhopal:

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| --- | --- |
|  | Classroom Teaching & Laboratory Teaching |
|  | Developed learning resource material for various laboratories (Analysis and Design of Algorithms, Data Structure, Compiler Design, RedHat Enterprises Linux). |
|  | Conducted third & final year viva – examinations as convener for different subjects also involved in paper setting and paper assessment at University/Institute level. |
|  | Conducting Industrial Training for the students of all second, third and final year |
|  | Guided the number of projects of Final year. |
|  | Involved in supervision duties at institutional/university level examination. |
|  | Published almost 27 papers in the National and International Conferences and Journals. |
|  | Attended number of training programs for the self-development. |
|  | Organized number of technical events such as Paper Contests, workshops, Seminars in the Department for the students’ upliftment. |
|  | Organized Industrial Tours for the students. |
|  | Chairmen of Anti Ragging and Discipline Committee |



Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_