

PERSONAL INFORMATION

Dr. Shahbaz Afzal

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Date of Birth: August 10th, 1993

Place of Birth: Kulgam (J&K) India

Citizenship: Indian

Current Position: Assistant Professor,
Institute of Technology, University of
Kashmir

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Web of Science Researcher ID: AFK-8114 2022

Google Scholar Profile:

<https://scholar.google.com/citations?user=L4KfaDQAAAAJ&hl=en>



OBJECTIVE

To obtain a position as an Assistant Professor with an opportunity to utilize my teaching, research and administrative skills in a reputable institute to contribute significantly to academic community for the betterment of society and benefit of mankind.

PROFILE SUMMARY

- I. PhD in **Information Technology** specializing in **Cloud Computing** with over **4 years of post-PhD teaching experience** and **18 research publications in indexed journals and conferences**.
- II. Two years teaching experience at undergraduate level during the research period.
- III. Excellent written and oral communication skills with proficiency in English.
- IV. Strong organizational skills.
- V. Experienced in teaching undergraduate and postgraduate courses such as Cloud Computing, Operating Systems, Computer Networks and Cyber Security.
- VI. Actively engaged in research collaborations, curriculum development, and student mentoring.

ACADEMIC QUALIFICATION

Degree	Specialization	University/Board	Year of Passing
Doctor of Philosophy (Ph.D)	Cloud Computing (Information Technology)	B.S. Abdur Rahman Crescent Institute of Science & Technology- Chennai	2022
Master of Technology (M.Tech)	Information Technology	B.S.Abdur Rahman University, Chennai	2016
Bachelor of Technology (B.Tech)	Information Technology & Telecommunication Engineering	Baba Ghulam Shah Badshah University, Rajouri	2014

TEACHING EXPERIENCE

S.No	Position	Department	University	Experience in Years	Date of Joining	Date of Relieving
1	Teaching Assistant	Information Technology	B.S. Abdur Rahman Crescent Institute of Science & Technology- Chennai	2 Years	10-02-2017	10-11-2018
2	Assistant Professor	Information Technology	B.S.Abdur Rahman Crescent Institute of Science & Technology- Chennai	0.9 Years	20-10-2021	07-07-2022
3	Assistant Professor	Computer Science and Engineering	Chitkara University Himachal Pradesh	2 Years and 10 Months	20-07-2022	20-05-2025

PROJECTS AND TRAINING

- Four Weeks Practical training in BSNL during the year 2013.
- Six weeks training in Embedded Systems and completed project “GSM based Home Automation” from HBEON Labs Pvt. Ltd. In the year 2014.

AREAS OF INTEREST

- Cloud Computing
- Optimization Techniques
- Cryptography and Cyber Security

P.HD THESIS TITLE

“Proactive Load Balancing Approach using Hybrid Queuing and Population Dynamics Model to Improve the Quality of Service in Cloud”

COURSES TAUGHT

- Cloud Computing
- Operating Systems
- Basics of Web Technologies
- Cyber Security
- Computer Networks

LANGUAGES

- English (Read, Write and Speak)
- Urdu (Read, Write and Speak)
- Kashmiri (Read and Speak)
- Hindi (Speak only)
- Arabic (Read only)

RESEARCH ARTICLES

1. Shahbaz Afzal, Kavitha.G, **“A Hybrid Multiple Parallel Queuing Model to Enhance QoS in Cloud Computing”**, International Journal of Grid and High Performance Computing, Volume 12, issue 1, January-March 2020, page (18- 34) (WoS, Scopus Indexed – I.F:0.20)
2. Shahbaz Afzal, Kavitha.G, **“Load balancing in cloud computing – A hierarchical taxonomical classification”**, Journal of Cloud Computing: Advances Systems and Applications, December 2019 doi:10.1186/s13677-019-0146-7 (Springer Nature, Web of Science, IF=3.222)
3. Shahbaz Afzal, Kavitha G., **“A Proactive Population Dynamics Load Balancing Algorithm in Cloud Computing for QoS Optimization”** International Journal of Grid and utility Computing, Vol. 12, No. 5-6, December 2021. (WoS, Scopus Indexed, IF=0.32).
4. Shahbaz Afzal, Kavitha G and Amir Ahmad Dar, **“An Application of Taguchi L16 Method for optimization of Load balancing Process Parameters in Cloud Computing”** international Journal of Cloud Computing, Inderscience Publication (Scopus Indexed IF=0.15).

5. Shahbaz Afzal, Kavitha.G, “**Impact on QoS in Cloud Computing Employing a Parallel Queuing Model with Strictly Increasing Arrival Rate – An Analytical Approach**”, International Journal of Innovation In Engineering Research & Management, Vol.5, No.2, pp:1-5, March 2018 (Indexed in Google Scholar, DOAJ) .
6. Shahbaz Afzal, Kavitha. G, and Shabnum Gull “**Parallel Queuing Model in a Dynamic Cloud Environment-Study of Impact on QoS: An Analytical Approach**” in book: Data Engineering and Communication Technology, AISC series Springer, January 2020 (Scopus).
7. Shahbaz Afzal and Kavitha.G, “**A Taxonomic Classification of Load Balancing Metrics- A Systematic Review ”** in proceedings of **33rd Indian Engineering Congress** organized by Institution of Engineers at Udaipur during 21st to 23rd December 2018.
8. Shahbaz Afzal, and Kavitha.G “**Optimization of Task Migration Cost in Infrastructure Cloud Computing using IMDLB Algorithm.**” in 2018 International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), pp. 1-6. IEEE, 2018 (Scopus).
9. Afzal, S., & Kabeer, M. “**Long Term Evolution (LTE) Communication System: Functional Blocks And Working**”. International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 22 Issue 2 – May 2016.
10. Amir Ahmad Dar and N. Anuradha & Afzal, S. (2017). “**Design Of Experiment On Probability Of Default (PD)**”, International Journal of Pure and Applied Mathematics 118(10), 303-315.
11. Amir Ahmad Dar, Shahid Qadir and Shahbaz Afzal (2019), “**Analysis of Equity Derivatives**”, International Journal of Research in Finance and Management 1 (2), 14-18.
12. Shahbaz Afzal and Kavitha G. “**Enhancing Migration Related Parameters in Cloud Computing by Adopting Improved Modified Distribution Load Balancing Approach**” International Conference on Mathematical Computer Engineering (ICMCE 2020).
13. Shahbaz Afzal, Kavitha G and Amir Ahmad Dar, “**A Cloud Computing-Based Model to Improve Healthcare in Endangered Wildlife**” in the Handbook of Research on Smart Technology Models for Business and Industry, IGI Global 2020.
14. Amir Ahmad Dar, Shahid Qadir, and Shahbaz Afzal, “**COVID-19: Home vs. Other Place Quarantine – A Study in Kashmir**” in the handbook of Research on Library Response to the Covid-19 pandemic , IGI Global 2021.
15. Amir Ahmad Dar, Qaiser Farroq , Shahbaz Afzal, “**Derivatives - options and their applications**” Vol. 1, 1-185, Scholars Press.

16. Dar, A. A., Jain, A., Malhotra, M., Afzal, S., & Khan, M. S. (2023). **Effect of factors on company's goodwill**. Journal of Global Entrepreneurship Research, 13(1), 1-10.
17. Shahbaz Afzal, A, Thakur, & P Singh (2024). **Optimization of Cloud Migration Parameters Using Novel Linear Programming Technique**. Innovations in Electrical and Electronic Engineering 115, 43-62 (Scopus).
18. Shahbaz Afzal, A, Thakur (2024) **Unsupervised Learning for Image Forgery Detection** Machine Learning Algorithms ICMLA 2024, 380-390 (Scopus).
19. Shahbaz Afzal, G. Kavitha and Rais Ahmad Itoo (2024). **Analysis of Load Balancing Parameters for Cloud Memory Tasks Using Population Dynamics Model**. in Book Utilizing Cloud Computing for SME Development (*Under Process*).

PATENTS

1. Design of PEN, design no. 442367-001 dated 28/12/2024.
2. Design of Water Bottle Cap Application No. 436252 CBR No. 220199 (*Status Filed*).

CONFERENCES PARTICIPATED AND PRESENTED

1. Presented a paper entitled "Parallel Queuing Models in a Dynamic Cloud Environment- Study of Impact on QoS: An Analytical Approach" in the 3rd International Conference on Data Engineering and Communication Technology (ICDECT- 2019) held during 14th- 16th March 2019 at Stanley College of Engineering & Technology for Women, Hyderabad , India.
2. Presented a paper titled "Long term Evolution (LTE) Communication System: Functional Blocks and Working" in the International Conference on Advances in Emerging Technology 2016 held at Jaya Engineering College Chennai, India.
3. Attended the 4th "National Conference on Recent Trends in Information technology (NCRTIT 17)" held on 5th and 6th of April 2017 at B.S. Abdur Rahman Crescent University, Chennai, India.
4. Attended the preconference tutorial in the "4th national Conference on Recent Trends in Information technology (NCRTIT 17)" held on 5th and 6th of April 2017 at B.S. Abdur Rahman Crescent University, Chennai, India.
5. Presented a paper titled "A Taxonomic Classification of Load Balancing Metrics- A Systematic Review" in the 33rd Indian Engineering Congress organized by The Institution of Engineers (India) at Udaipur on December 21-23 2018.
6. Presented a paper titled "Impact on QoS in Cloud Computing Employing a Parallel Queuing Model with Strictly Increasing Arrival Rate – An Analytical Approach" in the international Conference on Contemporary Engineering and Technology" held on 10th

and 11th March 2018 organized by organization of Science and innovative Engineering & Technology (OSIET) Chennai, India.

7. Presented a paper titled “Enhancing Migration Related Parameters in Cloud Computing by Adopting Improved Modified Distribution Load Balancing Approach” in the International Conference on Mathematical Computer Engineering (ICMCE 2020).
8. Presented a Paper titled “A Pine Tree Optimization Algorithm” in the National Conference on Recent Trends and Technologies in Computing (NCR TTC-21), organized by Department of Computer Science and Engineering, Arasu Engineering College, Chennai on 01-04-2021.
9. Presented a paper titled “Role of Cloud Computing in Combating The Covid-19 Pandemic – A Case Study” in the 45th Indian Social Science Congress (ISSC) organized by Indian Social Science Academy (ISSA) and B. S Abdur Rahman Crescent Institute of Science and Technology, Chennai on 28 March to 01 April 2022.
10. Presented a paper titled “A Nature Inspired Pine Tree Optimization Algorithm For Green Computing Applications” in the 45th Indian Social Science Congress (ISSC) organized by Indian Social Science Academy (ISSA) and B. S Abdur Rahman Crescent Institute of Science and Technology, Chennai on 28 March to 01 April 2022.
11. Presented a paper titled “An Efficient IoT-Based Patient Monitoring And Heart Disease Prediction System Using Deep Learning Modified Neural Network ” in the 45th Indian Social Science Congress (ISSC) organized by Indian Social Science Academy (ISSA) and B. S Abdur Rahman Crescent Institute of Science and Technology, Chennai on 28 March to 01 April 2022.
12. Presented a paper titled “Study on Collapse of Brengi River into A Sinkhole – Causes, Consequences and Solutions Using Computer Modeling” in the 45th Indian Social Science Congress (ISSC) organized by Indian Social Science Academy (ISSA) and B. S Abdur Rahman Crescent Institute of Science and Technology, Chennai on 28 March to 01 April 2022.
13. Presented a paper titled “Role of Cloud Computing in Stabilizing The Global Academic Workforce during The Ongoing Covid-19 Pandemic” in the 45th Indian Social Science Congress (ISSC) organized by Indian Social Science Academy (ISSA) and B. S Abdur Rahman Crescent Institute of Science and Technology, Chennai on 28 March to 01 April 2022.
14. Presented a paper titled “Optimization of Cloud Migration Parameters using Novel Linear Programming Technique” in the 4th International Conference on Electrical and Electronics Engineering (ICEEE-2023) organized at Chitkara University HP India on 19th-20th August 2023.

15. Presented a Paper titled “Unsupervised Learning for Image Forgery Detection”, 1st International Conference on Machine Learning Algorithms – ICMLA 2024” organized at Chitkara University HP India on 23rd-24th February, 2024.

LIST OF WORKSHOPS / SEMINARS PARTICIPATED

1. Participated in the National Workshop on “Relevance of Mathematics in Scientific Computing and Engineering Discipline” organized by the Department of Mathematics & Actuarial Science, B. S. Abdur Rahman Crescent University, Chennai, sponsored by Tamil Nadu state council for Science & technology on 12th & 13th May 2017.
2. Participated in one day workshop on “Big Data Analytics using Hadoop” conducted by department of Information Technology during 12th September at B. S. A Crescent Institute of Science & Technology.
3. Participated in the three days workshop on “Writing Quality Research Articles, project Proposals and patents” during 20th July to 22nd July 2018 organized by office of Dean (Research) at B. S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India.
4. Participated in the two days workshop on “Artificial Intelligence, Machine Learning and Deep Learning” at B. S. A Crescent Institute of Science and Technology, Chennai on 7th & 8th March 2019 organized by department of Information Technology in association with Dcrew IT Solutions Pvt. Ltd, Chennai.
5. Participated in the “Secure Cloud ” theme based event conducted on the month of Sept- Oct 2015 held at department of Information Technology, BSAU Chennai.
6. Developed project /model and exhibited in the Open House & Exhibition held on 9th and 10th January 2015 at B S Abdur Rahman University Chennai, India.
7. Participated in the international symposium on “Artificial Intelligence- Future Disruptive Technology” organized by the school of Computer, information and Mathematical Sciences, B S Abdur Rahman Crescent University on 6th and 7th November 2017.
8. Participated in “National Seminar on e-Learning and MOOCs in Higher Education” organized by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi in collaboration with and at Crescent Institute of Science & Technology, Chennai on 9th March 2019.
9. Participated in a one day workshop on “ R Tool and Real Time Case Study ” organized by department of Computer Science & Engineering on 1 September 2018 at Swathi Institute of Technology & Sciences Hyderabad.
10. Participated in three days workshop on “Cisco networking and Security Implementation” at B.S Abdur Rahman University, Chennai on 19th- 21st September 2015 organized by IBNC India and I- Medita Learning Solutions (P) Limited.

11. Participated in “ National Ethical hacking Workshop cum Championship” on 29th – 30th March 2013 at Institute of Management Sciences Gurha Brahmana Jammu.
12. Attended the workshop on “Network Security” organized by Department of Information Technology and Engineering on 3rd of September 2012 at Baba Ghulam Shah Badshah University, Rajouri , J&K.
13. Participated in five days workshop on “RFID and Microcontrollers based Pervasive computing” organised by ITE and CSE Department in collaboration with HBEON LABS Technologies PVT. Ltd held at BGSB University from April 22-26 2013.
14. Participated in national level technical symposium on “CISCO Networking and Troubleshooting” event at B S Abdur Rahman University on 16th – 19th March 2016.
15. Participated in the Quiz Competition on “The Impact of Internet on Our Daily Life” organized by PG Department of Information Technology, BGSB University Rajouri on April 17, 2013.
16. Participated in national level technical symposium on “Cloud Computing” event at B S Abdur Rahman University on 16th – 19th March 2016.
17. Participated in the Online Quiz Competition on “Test your knowledge on Plagiarism” Conducted by office of Dean (Research), B. S. Abdur Rahman Crescent Institute of Science & Technology, Chennai during May 2020.
18. Participated in the “C Programming Quiz” Organized by The Department of Computer Applications, B. S. Abdur Rahman Crescent Institute of Science & Technology, Chennai with a consolidated score of 100 %.
19. Participated in the online workshop on “Scientific writing for journals ” Organized by The Springer Nature on 15th May 2020.
20. Participated in the AICTE sponsored six days short term training programme on “Artificial Intelligence and Deep Learning Techniques” Organized by the Department of Information technology, B. S. Abdur Rahman Crescent Institute of Science & Technology.
21. Presented a Seminar on “A Proactive Load Balancing Approach in IaaS Cloud” to the Research Scholars, UG and PG students on 12-02-2021.
22. Received Certificate of Completion from Chegg Expert Learning Platform for completing the course “Solving International Questions on 17-02-2022.
23. Successfully Completed the “Innovation Ambassador Training- Foundation Level” conducted by MoE’s Innovation Cell and AICTE.
24. Successfully Completed the “Innovation Ambassador Training- Advanced Level” conducted by MoE’s Innovation Cell and AICTE.

25. Completed the short course on “The Rudiments of Artificial Intelligence, ChatGpt, Deepseek and MetaVerse” on March 06 2025.
26. Attended one day Seminar on “The Future of Libraries In the Era of Artificial Intelligence” sponsored by Raja Rammohun Roy Library Foundation and Chitkara University Himachal Pradesh on 3rd May 2025”.

CONFERENCES ORGANIZED AND COORDINATED

1. Coordinator for the 45th Indian Social Science Congress for the School of Computer, Information and Mathematical Sciences, held from 28th March to 01 April 2022 on the theme “Current Research and Theory in Computer Science Growth of Indigenous Digital Technology” at B. S Abdur Rahman Crescent Institute of Science and Technology Chennai.
2. Coordinated the webinar on ‘Future of Computing’ organized by Department of Information Technology, B S Abdur Rahman Crescent Institute of Science and Technology Chennai on 03 December 2021.
3. Session Chair for the 4th International Conference on Electrical and Electronics Engineering (ICEEE-2023) organized at Chitkara University HP India on 19th-20th August 2023.
4. Organized a technical session on “Authorization Best Innovative Practices in MongoDB” with IEEE student branch, Chitkara University HP India on 18th December 2023.
5. Session Chair for the “1st International Conference on Machine Learning Algorithms – ICMLA 2024” organized at Chitkara University HP India on 23rd-24th February, 2024.
6. Research Reviewer for the “1st International Conference on Machine Learning Algorithms – ICMLA 2024” organized at Chitkara University HP India on 23rd-24th February, 2024.
7. Organized a Technical Level Project Exhibition titled TechSpark-24 for the students of CSE, Chitkara University Himachal Pradesh on 13th of May 2024.
8. Organized a one day workshop on Github for BE CSE Students on 10th of May 2024.

FDP ATTENDED/ PARTICIPATED

1. Attended a one week Faculty Development Program on “**Deep Learning Applications in Healthcare & Technology**” organized by IIT Roorkee and Chitkara university (HP) from 26th June to 1st July 2023.
2. Attended a five days Faculty Development Program on “**Application of Artificial Intelligence (AI) in traditional engineering practices** ” organized by Department of Civil Engineering, CUIET-Applied Engineering, Chitkara University, Punjab from 05th June to 09 June 2023.

3. Participated one week national level Faculty Development Program on Cloud Infrastructure (AWS) organized by JNTUK Andhra Pradesh in Collaboration with BrainoVision and AICTE from 21st to 25th August.
4. Attended one week faculty development programme on “**Teacher’s Self Esteem, Motivation & Professionalism Development**” conducted by NITTTR Chandigarh in July 2024.

REVIEWER TO JOURNALS

1. Journal of Network and Systems Management (WoS, Springer).
2. IEEE Transactions on Cloud Computing (WoS, IEEE).
3. Journal of Economic Structures (WoS, Springer).
4. Journal of Computers and Electrical Engineering.
5. Session Chairperson for the 4th International Conference on Electrical and Electronics Engineering (ICEEE-2023) organized at Chitkara University HP.
6. Session Chairperson for the 1st International Conference on Machine Learning Algorithms (ICMLA 2024) organized at Chitkara University HP.
7. Reviewer for the 1st International Conference on Machine Learning Algorithms (ICMLA 2024) organized at Chitkara University HP.
8. Reviewer for 4th International Conference on Computing, Analytics and Networks- ICAN 2024.

ADMINISTRATIVE ROLES AND RESPONSIBILITIES

1. Department Research Coordinator
3. Department NBA Coordinator
4. Course Coordinator (Operating System)
5. NAAC Coordinator

COMPETATIVE EXAMS

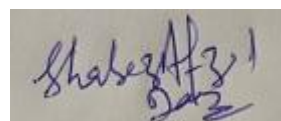
1. JKPSC Kashmir Administrative Services (2025) Prelims Roll No. (9100139)

HUMANITY DEEDS

1. Donated Blood at B S Abdur Rahman University on 5th December 2014 organized by HDFC Bank Ltd. Blood Donation Camp 2014.
2. Participated in the Relief and rescue operation during the Chennai Floods 2015 organized by Rahim Motors Pvt. Ltd

Hobbies

1. Reading
3. Trekking
4. Gardening

A handwritten signature in black ink, appearing to read "Shabeer" with some additional scribbles below it.