

CENTRAL UNIVERSITY OF JAMMU

FACULTY PROFILE

Name	Zakir Ahmad Sheikh	
Title & Designation	Assistant Professor, Department of Computer Science and Information Technology, Central University of Jammu Rahya-Suchani (Bagla), District Samba, Pincode - 181143, Jammu & Kashmir (J&K), India	
Residence Address	Turigam Devbugh, Yaripora Kulgam, Jammu and Kashmir - 192232	
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Educational Qualifications:		
Degree	Institution	Year
Ph. D.	Central University of Jammu	Pursuing
M. Tech.	Central University of Jammu	2020
B. Tech.	Mewar University	2017
Competitive Exams:		
Exam	Subject	Year
UGC-NET	Computer Science and Applications	2022
GATE	Computer Science and Information Technology (CS)	2020
Areas of Interest / Specialization:		
Cyber Security, Security of Cyber Physical Systems, Artificial Intelligence, Programming, Internet of Things, Computer Networks, Algorithms and Data Structures, Database Management System, Operating System		
Career Profile:		
Designation	Institute/Organization	Period
Assistant Professor	Central University of Jammu	November 2023 onwards
Junior Research Fellow	Central University of Jammu	July 2021 – May 2023
Software Developer and Trainer	Think and Win Technologies	January 2018 – July 2018
Software Developer	EMax Technologies Private Limited	July 2017 – January 2018
Subjects/Topics Taught:		
Cyber Physical Systems Data Structures Computer Networks C Programming Java Programming Web Development		

Research Guidance:
Mentored many M. Tech. students in Dissertation
Publications Profile:
a. Research Papers in Journals
<ol style="list-style-type: none"> 1. Sheikh, Z. A.; Singh, Y.; Singh, P. K.; & Ghafoor, K. Z. (2022). Intelligent and secure framework for critical infrastructure (CPS): Current trends, challenges, and future scope. <i>Computer Communications</i>, 193, 302-331. https://doi.org/10.1016/j.comcom.2022.07.007 (IF 6.0) 2. Sheikh, Z. A.; Singh, Y.; Singh, P. K.; & Gonçalves, P. J. S. (2023). Defending the Defender: Adversarial Learning Based Defending Strategy for Learning Based Security Methods in Cyber-Physical Systems (CPS). <i>Sensors, MDPI</i>. 23(12), 1-19. https://doi.org/10.3390/s23125459 (IF 3.9) 3. Sheikh, Z. A.; Singh, Y.; Tanwar, S.; Sharma, R.; Turcanu, F. E.; & Raboaca, M. S. (2022). EISM-CPS: An Enhanced Intelligent Security Methodology for Cyber-Physical Systems through Hyper-Parameter Optimization. <i>Mathematics, MDPI</i>. 11, 189-205. https://www.mdpi.com/2227-7390/11/1/189 (IF 2.592) 4. Ahad, U.; Singh, Y.; Anand, P.; Sheikh, Z. A.; & Singh, P. K. (2022). Intrusion Detection System Model for IoT Networks Using Ensemble Learning. <i>Journal of Interconnection Networks</i>, 2145008. https://doi.org/10.1142/S0219265921450080 (IF 0.459)
b. Research Papers in Conferences
<ol style="list-style-type: none"> 1. Sheikh, Z. A.; & Singh, Y. (2022). A Hybrid Threat Assessment Model for Security of Cyber Physical Systems. <i>Seventh International Conference on Parallel, Distributed and Grid Computing (PDGC).IEEE</i>. 10.0.4.85/PDGC56933.2022.10053332 2. Sheikh, Z. A., & Singh, Y. (2021). Lightweight de-authentication DoS Attack detection methodology for 802.11 networks using sniffer. In <i>Proceedings of second international conference on computing, communications, and cyber-security</i> (pp. 67-80). Springer, Singapore. https://doi.org/10.1007/978-981-16-0733-2_5 3. Akshita, Singh, Y., & Sheikh, Z. A. (2022). On efficient and secure multi-access edge computing for internet of things. In <i>Proceedings of Third International Conference on Computing, Communications, and Cyber-Security</i> (pp. 299-310). Springer, Singapore. https://doi.org/10.1007/978-981-19-1142-2_23 4. Muzafar, R., Singh, Y., Anand, P., & Sheikh, Z. A. (2022). Review on Security of Internet of Things: Security Requirements, Threats, and Proposed Solutions. In <i>Emerging Technologies for Computing, Communication and Smart Cities</i> (pp. 747-756). Springer, Singapore. https://doi.org/10.1007/978-981-19-0284-0_54 5. Jabeen, R., Sheikh, Z. A., & Singh, Y. (2022). "Machine Learning for Security of Cyber-Physical Systems and Security of Machine Learning: Attacks, Defences, and Current Approaches". <i>International Conference on Recent Innovations in Computing (ICRIC) INDO-Hungry 2022</i>, volume 2. Springer, Singapore. https://doi.org/10.1007/978-981-99-0601-7_62
c. Book Chapters
<ol style="list-style-type: none"> 1. Sheikh, Z. A., & Singh, Y. (2022). Minimizing Cost, Effort, and Implementation Complexity for Adopting Security Requirements in an Agile Development Process for Cyber-Physical Systems. <i>Agile Software Development: Trends, Challenges and Applications</i>. Scrivener Publishing LLC. https://doi.org/10.1002/9781119896838.ch6
Patent:
<ol style="list-style-type: none"> 1. Jain, S.; Singh, Y.; Sheikh, Z. A.; & Sharma, Ashok. (January, 2023). IOT-PHG: Internet of Things Based Safety Device for Protection Against Hazardous Gases. (National Patent)(Filed).
Awards and Distinctions:
<ol style="list-style-type: none"> 1. PMSSS for Pursuing B. Tech. Received Prime Minister's Special Scholarship Scheme for pursuing B. Tech. degree. 2. First Rank in B. Tech. Secured highest marks for all the four years of B. Tech. in the department of Computer Science and Engineering (CSE), Mewar University, Rajasthan (Batch 2013-2017) 3. Best Reviewer Award. Honored with the best reviewer award in the 6th International Conference

on Recent Innovations in Computing (ICRIC-2023) organized by Department of Computer Science and IT, Central University of Jammu.

4. **Third Position in Programming Competition.** Achieved 3rd position in University level programming competition (C for Denis) at Mewar University Rajasthan.

Resource Person:

1. One week FDP/Workshop on “Recent Trends in Security: IoT, Blockchain, and Cyber Security (RTS-2022)” held during 19th-23rd September 2022, organized by Department of Computer Science and IT, Central University of Jammu, India.

Conference Session Chair:

1. Seventh International Conference on Parallel, Distributed and Grid Computing (PDGC-2022), IEEE, held during 25th-27th November 2022, organized by Department of Computer Science and Engineering, Jaypee University of Information Technology, Himachal Pradesh, India.

Reviewer:

1. Reviewed a Cyber Security related paper in September 2022 for the Journal namely “Bulletin of Electrical Engineering and Informatics (BEEI)”, Institute of Advanced Engineering and Science (IAES). (Scopus Indexed)

Conferences/Workshops/FDPs:

1. Attended International Conference in Recent Innovations in Computing (ICRIC-2023) at Central University of Jammu on 26-27 October, 2023.
2. Attended International Conference in Recent Innovations in Computing (ICRIC-2022) (Indo-Hungarian Conference), Volume 2 at Central University of Jammu on 13-14 August, 2022.
3. Attended International Conference in Recent Innovations in Computing (ICRIC-2022), Volume 1 at Central University of Jammu on 16-17 May, 2022.
4. Attended International Conference in Recent Innovations in Computing (ICRIC-2019) at Central University of Jammu on 08-09 March, 2019.
5. Attended National Conference of Material Sciences (NCMS-2014) at Mewar University, Rajasthan on 17-18 October, 2014.
6. Attended Microsoft AI Classroom Series at Microsoft on 01 April, 2021.
7. Attended One Day Cyber Forensics Workshop at Indian Institute of Technology (IIT) Jammu, India on 10 February, 2023.
8. Attended 1st National Level Research Conclave at Institute of Technology, Nirma University, Ahmedabad, India on 19-20 December, 2022.
9. Attended Webinar on The Art of Drone Technologies at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, India on 12 March, 2022.
10. Attended Recent Trends in Security: IoT, Blockchain, and Cyber Security (RTS-2022) at Central University of Jammu, India on 19-23 September, 2022.
11. Attended FDP on Artificial Intelligence at Central University of Jammu, India on 18-22 November, 2019.
12. Attended FDP on Internet of Things (IoT) at Central University of Jammu, India on 14-18 October, 2019.
13. Attended Workshop on Android Technology at Mewar University, Rajasthan, India on 11-12 December, 2013.

Internships/Trainings:

1. Completed an internship in Advanced Java at Rooman Technologies, Bangalore, from January 2017 to June 2017.
2. Engaged in Android Application Development training at KVCH-IBM Business Partner, Delhi, from June 2016 to July 2016.
3. Undertook Project Training in Java at Aptech, Srinagar, from June 2015 to July 2015.

15 December 2023

Zakir Ahmad Sheikh