Dr. Umi Salma Basha
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Work Experience:

17 Years of Teaching and Research Experience in Computer Science.

Academics Qualification:

1. 2019 – Ph.D. in Computer Science, Area of Research Information Security.
   Bharathiar University, Coimbatore-641046, Tamil Nadu, India.

2. 2015 – M.PHIL Computer Science Degree
   Bharathiar University, Coimbatore-641046, Tamil Nadu, India

3. 2007 – MASTER OF COMPUTER APPLICATION (M.C.A) - Distinction.
   University of VTU, Belgaum, Karnataka, India.

4. 2004 – BACHELOR of SCIENCE (Computer Science)
   Gulbarga University, Gulbarga, Karntaka,India.

Research Area Interest:

Information Security, Network security, Cloud computing.

Research Paper Published:

1) Fortifying Healthcare Data Security in the Cloud: A Comprehensive Examination of the EPM-KEA Encryption Protocol. *Computers, Materials & Continua* **2024, 79(2), 3397-3416. https://doi.org/10.32604/cmc.2024.046265**

2) Improved Group Key Management Region Based Cluster Protocol in Cloud, Accepted: 28 November 2017. Springer Science + Business Media, LLC, part of Springer Nature 2017. https://doi.org/10.1007/s10586-017-1455-6, Volume No 20 ISSUE 77, pp. 1–13.

3) Big data analytics on the impact of OMICRON and its influence on unvaccinated community through advanced machine learning concepts, Accepted 27 June 2022. Springer. Published on 19 August 2022. https://doi.org/10.1007/s13198-022-01735-w.

4) Advanced Deep Learning for Improving Smart Healthcare Services on Edge and Cloud Computing. https://doi.org/10.52783/tjjpt.v44.i3.2050, Vol. 44 No. 3 (2023).

5) A Generic Group Key Management Framework model for wireless Mobile Environments Issue 11, Volume 2 November 2015, published in IJIRAE Journals, www.ijirae.com.

6) A Survey of Group Key Management Protocols in Wireless Mobile
   Volume 2, Issues 2 of February 2015, Published in IJIRIS Journals,
   http://www.ijirae.com/volume-2-issue-2.

7) A Survey Of Key Management Framework For Wireless Mobile Environment
   Volume 1, Issues 2 of August 2014 Published in IJIRIS Journals, http://www.ijiris.com.

Conference Paper published

1) Rapid Chaotic-based Image Encryption by Combining Chaotic and Non-Chaotic Scrambling Techniques. 2023 7th International Conference on Computing Methodologies and Communication (ICCMC), IEEE conference.

2) Automating the storage process of cloud by introducing AI Concepts. IEEE 7th International Conference on communication and Electronics Systems (ICCES 2022), Accepted 23-24 June 2022.

3) Malware Detection and classification using Recurrent Neural Network. IEEE conference Accepted in August 2022.

The PATENTS published

1) Deep Learning Based Emotion Recognition and Recommendation System using ECG Signal Analysis. APPLICATION NUMBER: 202341053825, PUBLICATION DATE (U/S 11A) 01/09/2023.

2) ARTIFICIAL INTELLIGENCE BASED BLOOD PRESSURE MONITORING SYSTEM FOR PATIENTS WITH CARDIOVASCULAR DISEASES. APPLICATION NUMBER 202341062408, PUBLICATION DATE (U/S 11A) 06/10/2023.

Extra-Curricular Activities, Seminars and Conferences details:

- Attended Workshop on teaching Cryptology at undergraduate Level.
- Participated 3 days in national Workshop on Network Security & its Advanced Applications
- Managed cultural fest of college.
- Worked as editorial board of the college.
- Worked as faculty advisor.
- Attended 3rd IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2021) during 5th-7th March 2021 awarded for outstanding performance.
- Participated in International Psychology career submit on 4, 5 and 6th June 2021.
- Attended Webinar on The impact of artificial intelligence of covid-19 on employment. 8th Nov 2020.
- Attended webinar on how to write Literature review on 12th October 2021.

Relevant Experience:

JAZAN UNIVERSITY, JIZAN, SAUDI ARABIA
Lecturer Computer Science
September 2010 – Till Date

- Working as a Sr. Lecturer in Computer Science department.
- Subjects taught, Java programming, Algorithms and Data structures, Operating System, Advanced OS, C, C ++.
- Working as professional development Unit member and Course in charge, previously in other department committees.
- Conducting tests for Theory, Lab and Result Display.

- Enhance students English and overall personality.
- Prepared students for group discussions and interviews.
- Teaching human values and participating in Seminar and Meeting.
- Preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- Participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department
- Participating in the development, administration and marking of exams and other assessments.

RYMEC (Formerly Vijayanagar Engineering College), BELLARY, KARNATAKA, INDIA
Lecturer (Computer Science) for Engineering
August 2007- January 2009

- Worked as a lecturer for Computer Science dept.
- Subjects taught OS, C, C++, Security and HTML.
- Joined to my senior for curriculum and exam development activities.
- Monitoring student's learning and Making records of student's progress.
- Meeting with students to solve their problems
- Checking student papers and grading them.
- Building a good environment to promote fairness and respect.
- Conducting Computer programming labs
- Preparing schemes of work & maintaining records to monitor student progress, achievement & attendance.
- participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department
- Participating in the development, administration and marking of exams and other assessments.

S L N COLLEGE OF ENGINEERING, RAICHUR, KARNATAKA, INDIA
Lecturer (Computer Science) for Engineering
2009 – September 2010

- Worked as a lecturer for Computer Science dept.
- Subjects taught C, C++, Networking, DBMS, MS OFFICE and HTML.
- Attending meeting, Seminar with HOD and College Coordinators
- Conducting tests for Theory and Lab and Result Display.
- Enhance students English and overall personality.
- Prepared students for group discussions and interviews.
- Worked as editorial board of the college.
- Teaching human values and participating in Seminar and Meeting.

HONORS AND AWARDS

- Received Award for outstanding performance and contribution on preparatory year 2012
- Honoured as Campus coordinator during the academic 2013 - 2014
- Received award for outstanding contribution to Departmental Student Activities
  In the academic years 2015-2016
- Honoured for Excellent and amazing work done during academic 2017
- Attended I-Managers International Conference On Engineering and Technologies and awarded the best paper award
- Received appreciation letter from CS Department during academic year 2020
- Appreciation letter from CS Department 2021 and 2022.
- Appreciation letter from CS Department 2022 and 2023.

TECHNICAL SKILLS

Programming languages: C, C++, Java, C#...
Networking: Cloud computing, Security, network communication.
Other: Advanced Operating Systems.

LANGUAGES

English: Proficient
Hindi: Proficient
Arabic: Fluent

Declaration

I hereby declare that the above written particulars are best of my knowledge and belief.

Place: Jizan, Saudi Arabia
Date: 7/9/2024   Dr. B. Umi Salma