Academic Resume

Sahar Jambi

Assistant Professor, Information Systems Department

Contact Information.

Building 61, Room 178, Add. KAU, shjambi@kau.edu.sa.

Highest Degree.

2016, PhD in Computer Science, Software Engineering, Big Data Services, University of Colorado Boulder, USA.

Academic and Professional Experiences.

1. **2023 - Present**
   Deputy Director, Digital Transformation Center, King Abdulaziz University, Jeddah, Saudi Arabia.
2. **2019 - Present**
   Assistant Professor, Information Systems Department, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
3. **2019 - 2019**
   Post-Doctoral Researcher, Department of Computer Science, College of Engineering and Applied Science, University of Colorado Boulder, CO. USA.
4. **2018 - 2019**
   ML Software Engineer, Twitter Inc., Boulder, CO. USA.
5. **2017 - 2018**
   AI Deep Learning Engineer, Connekt Media Inc., Denver, CO. USA.
6. **2015 - 2015**
   Teaching Assistant, Department of Computer Science, College of Engineering and Applied Science, University of Colorado Boulder, CO. USA.
7. **2012 - 2015**
   Research Assistant, Department of Computer Science, College of Engineering and Applied Science, University of Colorado Boulder, CO. USA.
8. **2010 - 2012**
   Web Developer and System Administrator, Department of Physics, College of Arts and Sciences, University of Colorado Boulder, CO. USA.
9. **2008 - 2009**
   Teaching Assistant/Developer, Deanship of Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
10. **1996 - 2008**
    Head of Statistical Analysis and Info Mgmt. Dept., King Fahd Medical Research Center, King Abdulaziz University, Jeddah, Saudi Arabia.

Research Interests.

Software Engineering, Data Mining/Engineering, Big Data Analytics, Big Data Processing, Big Data Services, AI and Machine Learning.

Teaching Interests.

Data Mining/Engineering, Big Data Processing/Technologies, Big Data Analytics, Enterprise Architecture, Semantic Web, Social Media Analysis, System Analysis and Design, Software Engineering, Software Architecture.

Certifications and Trainings.

1. SPSS Data Analysis, Professional training at King Fahd Medical Research Center, KAU.
2. Machine Learning Engineer, 6-month online course at Udacity.
3. Scala Programming Language, Professional training at Twitter Inc. USA.
4. MATLAB Data Analysis/Machine Learning, Academic training at KAU.
5. Big Data Technologies (Hadoop Ecosystem, Apache Spark, Kafka, Cassandra, DataStax, OpenStack Cloud), Academic training at University of Colorado Boulder, USA.
6. Machine Learning with Tensorflow, Professional training at Connekt Inc. USA.
7. Google Cloud Platform, Compute Engine API, BigQuery, Professional training at Connekt Inc. USA.
8. Developing Applications with React, Academic training at University of Colorado Boulder, USA.
9. Serverless Architecture/Computing, Academic training at University of Colorado Boulder, USA.
10. Twitter Data Platform, Professional training at Twitter Inc. USA.
11. Apple Certified Trainer in App Development with Swift, Online training at Apple Inc. USA.
12. SaaS - Software as a Service with AWS, Online course at Coursera.
13. No Dull Moment in the Classroom, Workshop at KAU.
14. Identifying the Impact of Artificial Intelligence (AI) on Academia and Job Market, 2-day symposium at KAU.
15. Data Strategy: Leveraging Data as a Competitive Advantage, 2-month online course at UC Berkeley, USA.
16. Researcher Development Framework, Workshop at KAU.
17. Designing Effective Assessment, Workshop at KAU.
18. ASP.NET Development, Professional training at King Fahd Medical Research Center, KAU.

Social, Scientific and Professional Affiliation.

1. 2013-2014, Steering Committee Member, CU Women in Computing, ACM-W. University of Colorado Boulder, CO. USA.
2. 2021-Present, Committee Member, Academic Accreditation Committee, IS Department, FCIT, KAU.
3. 2021-Present, Committee Member, Curriculum Development Committee (Postgraduate), IS Department, FCIT, KAU.

Funded Projects.

1. 2022, A Blockchain-based Framework for Faculty Governance, Deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia, ..
2. 2012, Project EPIC (Empowering the Public with Information in Crisis), US National Science Foundation (NSF), Department of Computer Science, College of Engineering and Applied Science University of Colorado Boulder, CO. USA, ..

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Publications.

1. Ehab Bahaudien Ashary, Sahar Jambi, Rehab B. Ashari, Mahmoud Ragab, "Entropy Based Feature Fusion Using Deep Learning For Waste Object Detection And Classification Model", Computer Systems Science And Engineering, vol: 47, pp. 2953-2969, 2023.
   DOI: 10.32604/csse.2023.041523

2. Ehab Bahaudien Ashary, Sahar Jambi, Rehab B. Ashari, Mahmoud Ragab, "Oppositional Jellyfish Search Optimizer With Deep Transfer Learning Enabled Secure Content-Based Biomedical Image Retrieval", Ieee Access, vol: 11, pp. 87849-87858, 2023.
   DOI: 10.1109/ACCESS.2023.3305368

3. Sahar Jambi, "Serverless Machine Learning Platform: A Case For Real-Time Crisis Detection Over Social Media", 2022 Ieee Second International Conference On Computer Science, Engineering And Applications (Iccsea), pp. 1-6, 2022.
   DOI: 10.1109/ICCSEA54677.2022.9936459

4. Mario Barrenechea, Sahar Jambi, Ahmet Arif Aydin, Mazin Hakeem, Kenneth M. Anderson, "Getting The Query Right For Crisis Informatics Design Issues For Web-Based Analysis Environments", Journal Of Web Engineering, vol: 15, 2017.

5. Sahar Jambi, Kenneth M. Anderson, "Engineering Scalable Distributed Services For Real-Time Big Data Analytics", 2017 Ieee Third International Conference On Big Data Computing Service And Applications (Bigdataservice), pp. 131-140, 2017.
   DOI: 10.1109/BigDataService.2017.22

6. Mario Barrenechea, Kenneth M. Anderson, Ahmet Arif Aydin, Mazin Hakeem, Sahar Jambi, "Getting The Query Right: User Interface Design Of Analysis Platforms For Crisis Research", 2015 International Conference On Web Engineering (Icwe), Engineering The Web In The Big Data Era, vol: 9114, pp. 547-564, 2015.
   DOI: 10.1007/978-3-319-19890-3_35

7. Kenneth M. Anderson, Ahmet Arif Aydin, Mario Barrenechea, Adam Cardenas, Mazin Hakeem, Sahar Jambi, "Design Challenges/Solutions For Environments Supporting The Analysis Of Social Media Data In Crisis Informatics Research", 2015 48th Hawaii International Conference On System Sciences (Hicss), pp. 163-172, 2015.
   DOI: 10.1109/HICSS.2015.29

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