

SHAMA KOUSER

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~ Training & Development in the Education Industry ~

- ⇒ A result oriented professional with over 15 years of experience in Teaching & Training.
- ⇒ Experience of facilitating/coaching students by using interactive discussions and “hands-on” approaches to help students learn and apply concepts in subjects.
- ⇒ Proficient in tasks associated with various departments, handling discipline & undertaking general administrative functions such as excellent communication and presentation skills with demonstrated abilities in mentoring motivated teams towards achieving organizational goals.

EMPLOYMENT HISTORY

May 2011 –Till Date: Jazan University, Jazan Saudi Arabia, as Lecturer and Cisco Instructor in Cisco Academy, Jazan University

Subjects: Computer Programming, Artificial Intelligence, Computer Skills, Digital Design, Computer Networks, Internet Technology, Computer Data security and Privacy, Multimedia Applications, Computer Organization and Architecture, Microprocessors and Assembly Language, IT Skills, Management Information Systems, Graph Theory, Implementing Knowledge management, Computer Graphics. Under Cisco Academy: _Information Technology Essentials, CCNA (Routing and Switching) Semester -1 and Semeser-2.

Dec 2009-March 2011:TKR College of Engg & Tech., Hyderabad, as Associate Professor

Subjects: Computer Organization, Digital Signal Processing, Digital Image processing, Computer Networks, Network Security and Cryptography.

Sep'2005-Nov'07: Mahaveer Institute of Science & Technology, Hyderabad as AssistantProfessor

Subjects: Computer Organization, Pulse and Digital Circuits, Switching Theory and Logic Design, Digital Logic Circuits, Computer Networks, Analog Communications, Digital Communications, Digital Signal Processing, Digital Integrated Circuit Applications, Digital Electronics.

Jul'2004-Aug'05: Moghal College of Engineering &Technology, Hyderabad as Asst. Professor

Subjects: Electronic Devices and Circuits, Pulse and Digital Circuits, Digital Electronics, Digital Logic Design

SERVICE ACTIVITIES UNDER JAZAN UNIVERSITY

- ⇒ Course In Charge: Digital Design(COMP-231), Computer Organization and Architecture(Cnet-213). Computer Networks(Cnet-331), Microprocessor and Assembly Language (Cnet315)
- ⇒ Cisco Instructor, Cisco Networking Academy, Jazan University.
- ⇒ Member, Planning & PMO Committee
- ⇒ Member, Planning & Organizational Excellence Committee.

Key Result Areas:

Strategic Management/ Operations

- ⇒ Interacting and collaborating with students, parents, and the community to build a college environment that maximizes student learning, academic performance, and social growth.
- ⇒ Participating in development, implementation and maintenance of policies, objectives, short-and long-range planning.
- ⇒ Performing miscellaneous job-related duties as assigned.

Teaching & Tutoring

- ⇒ Teaching as per academic curriculum to students, recognizing, respecting & nurturing the creative potential of each student.
- ⇒ Preparing exercises, questionnaires and assignments for students at various levels.
- ⇒ Responding to the queries in a spontaneous manner.
- ⇒ Setting & marking assignments and tests.
- ⇒ Assessing students' work for internally assessed components of qualifications
- ⇒ Observing students' work, behavior and attendance.
- ⇒ Preparing & maintaining records and write reports on students.
- ⇒ Keeping up to date with curriculum changes and assessment methods.

NOTEWORTHY MILESTONES

- ⇒ Introduced new procedures to streamline the student discipline in classroom and college campus.
- ⇒ Co-Ordinated in National Level Program conducted by the college called "ECTA2K9", "ECTA2K10", "PRATIBHA2K9", "TEKNOMIST2K6"&"TEKNOMIST2K7".
- ⇒ Participated in several workshops conducted by college and several other colleges.

EDUCATION

- ⇒ **Mater of Technology (M.Tech) in Digital Electronics and Communication Systems** from Mahaveer Institute of Science and Technology, JNTU, Hyderabad in Jan 2010 with 75%.
- ⇒ **Bachelor of Engineering (B.E) in Electronics & Communication Engineering** from College of Engineering, Hyderabad, Osmania University, Hyderabad in 2004 with 74%.
- ⇒ **Diploma in Electronics & Communication Engineering** from Kamala Nehru Polytechnic for Women, Hyderabad, State Board of Technical Education and Training in 1999 with 74.68%.

CERTIFICATIONS / PROFESSIONAL REGISTRATIONS

- ⇒ Cisco Certified Network Associate - CCNA R & S, CSC013220588, 2017
- ⇒ CCNA, Introduction To Networks, Cisco Instructor, 2017
- ⇒ CCNA, Routing and Switching Essentials, Cisco Instructor, 2017
- ⇒ IT Essentials, Cisco Instructor, 2018
- ⇒ "Cyber Security Operations" Instructor Led -ToT organized by Cisco-Registered.
- ⇒ "Big Data and Analytics" Instructor Training by Cisco- Registered

PROFESSIONAL MEMBERSHIPS

- ⇒ Member, IEEE (94373364)
- ⇒ Member, Cisco Networking Academy
- ⇒ Member Oracle Academy

AREA OF RESEARCH INTERESTS

- ⇒ Artificial Intelligence (AI)
- ⇒ Internet of Things (IoT)
- ⇒ Machine Learning
- ⇒ Cyber Security

PUBLICATIONS

- An Improved Explainable Artificial Intelligence for Intrusion Detection System in Cloud Environment, 2024/3, IJISAE.
- A novel method for diabetes classification and prediction with Pycaret, 2023/10, Microsystem Technologies.
- Automation of human behaviors and its prediction using machine learning, Microsystem Technologies, 2022/8, ISSN : 0946-7076
- A novel method for diabetes classification and prediction with Pycaret, Micro system Technologies, 2023/6/2, DOI : <https://doi.org/10.1007/s00542-023-05473-2>
- ICT for Identifying Safe Infrastructure to prevent accident using the application of AI, 3rd Doctoral Symposium on Computational Intelligence (DoSCI-2022)-International Conference
- Automation of Human Behaviors and its Prediction using Machine Learning, ESDA 2021, 4th International Conference on Energy Systems, Drives and Automation
- A novel algorithm for class imbalance learning on big data using under sampling technique, International Journal of Computational Intelligence Research, 2018.

Academic Accolades:

- ⇒ 2nd Best Research Paper in Faculty of Computer Science and Information System, the Eighth Scientific Forum for Jazan University Students, Vision 2030 Saudi Arabia. (As Supervisor)
- ⇒ Letter of Merit from CEO, Cisco Systems, Inc. for CCNA R &S ITE, CCNA R&S RSE, and IT Essentials, 2017
- ⇒ Secured Mandal 1st rank in S.S.C, State Level 201 rank in ECET, State Level 24th rank in PGECET.
- ⇒ Secured college 2nd rank in M.Tech
- ⇒ Secured class 3rd rank in B.E
- ⇒ Secured class 3rd rank in Diploma.
- ⇒ GATE 2011 : All India Rank 19781

ACADEMIC PROJECTS UNDERTAKEN

⇒ ***Design of Scalable Encryption Algorithm(SEA) for DATA SECURITY for small embedded applications using VHDL Based on Network Security and Cryptography***

Description: Most present symmetric encryption algorithms working on data security result from a Tradeoff between implementation cost and resulting performances. In addition, they generally aim to be implemented efficiently on a large variety of platforms. In this project, we take an opposite approach and consider a context where we have very limited processing resources and throughput requirements. For this purpose, we propose low-cost encryption routines targeted for processors with a limited instruction set. The proposed design is parametric in the text, key and processor size, provably secure against linear/differential cryptanalysis, allows efficient combination of encryption/decryption and “on-the-fly” key derivation. Target applications for such routines include any context requiring low-cost encryption and/or authentication. Applications of the project includes, in wireless communication and mobile computing and networking systems; for the encryption of JPEG2000 images; in scalable video coding; in sensor networks and RFID's. Each individual block is designed, implemented in VHDL simulated and synthesized. The complete functional unit is implemented, simulated in ALDEC VHDL 4.2 version and synthesized using SYNPLIFY 7.0 version.

⇒ ***Modelling of Floating Point Processor using VHDL***

Description: The objective of floating point processor is to perform arithmetic operation on the binary represented floating point numbers. Arithmetic operations consist of addition, subtraction, multiplication and division of mantissas with corresponding changes in their exponents. These blocks are then interconnected to form a single unit. Each individual block is designed, implemented in VHDL simulated and synthesized. The complete functional unit is implemented, simulated in ALDEC VHDL 4.2 version and synthesized using SYNPLIFY 7.0 version.

⇒ ***Online Student Portal***

Online Student Portal system is a Web-based integrated online system, the system is designed to support students with course materials and they can find the assignment, quizzes, materials, and

announcement and enter chat room to interact with other students and teachers .We will use SP.net technology to build dynamic website that can be updated online and Microsoft SQL serverfor database as it known as power full technology to build database websites

⇒ **Online Summer Training Management System (OSTMS)**

One of the most common issues with summer training courses is that people who are interested in them never know if an organization or company or other is offering a training course. The website will help students to find the most popular course based on the votes of student who have attended the course, and students will be able to comment on and review courses, and make registration in specific summer course. Through our website trainee can print certificate for his attendance in the training course, and through our website we can evaluate and calculate the students marks. OSTMS uses **asp.net** as a primary language for interactive front end to build dynamic website that can be updated online, with back end SQL.

⇒ **Web Claim System For Health Insurance**

The Claim processing system is an automated insurance convenience for all phases of life. The foundation of the system begins from registration of the patient (Beneficiary) and upload the reports files of health examination and other confirmations , after that CPD can determine if the patient (Beneficiary) registration is enrolment or refusal. In Web Based Claims Processing System (WCPS), the patient (Beneficiary) can fill the claim form online and submit it so that the form is sent to Claim Processing Department through Internet .This system is improving the conveniences offered to the consumers by changing it into an automated and online system. To accomplish this system we used Microsoft ASP.net technique with C# programming language and with back end SQL.

⇒ **Employee Performance Evaluation System (EPES)**

The project “Employee performance Evacuation System“ is to maximize the effectiveness of the employees and university faculty members, Help the university administration and meet the goals and objectives. Assist in creating a workplace environment which promotes the dignity and job satisfaction of the individual. Our project proposes online web application for the evaluation of employee performance and proposes that the university administration has a quality assurance department to manage and control the employee performance evaluation process ,the quality assurance department must announces and explains the main keys and standards of each evaluation stage. In this project , we have chosen The ASP.NET with C# programming language and Microsoft SQL Server as database management system.

⇒ **A training and courses provider application (TCPA)**

This project is for serving those who want to learn online throw an applications runs in users devices, also this application allow the companies or institutions who has a training courses to advertise over the app so the users can see these courses and it's details like the time this course begin or if it's online requires attendance and many other details related to the course so users can know and choose there right courses easily throw the app. This application also offers the ability to add training opportunity which added by the companies so users can see the training plans and it's details directly from the app. The application also has a filter to show the course and training opportunities selected by the user by selecting the aria and the course major so users can exactly see what they need. This project “A training and courses provider application” is going to be built with flutter as user interface design and flutter as logic programming language and firebase as database for storing data and having online connection

IT SKILLS

Languages:	C, C++, asp.net, HTML.
Operating Systems:	MS DOS, MS Windows
Hardware Languages:	VHDL, VERILOG-HDL, MATLAB, Cisco Packet Tracer
International Professional Certifications:	Cisco Certified Network Associate (Routing and Switching)

PERSONAL DOSSIER

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500005, A.P.			
References:	Available upon request		