SIDRA ZAFAR

@ sidzafar.88@gmail.com   ● Lahore , Pakistan
in https://www.linkedin.com/in/sidra-zafar/   ⚲ Female

OBJECTIVE

" Purpose-driven individual with an affinity for inspiring the tech leaders of tomorrow with innovative teaching and a passion for fostering creativity in technology. "

WORKING EXPERIENCE

Lecturer Computer Science and Industry Liaison Coordinator

Kinnaird College , Lahore

📅 August 2022 - Present   Lahore, Pakistan

- Develop and deliver engaging lectures, tutorials, and practical sessions for UG and PG computer science courses.
- Design and update course materials, syllabi, and assignments to align with current industry trends and academic standards.
- Develop and administer assessments, examinations, and grading for UG and PG students.
- Provide constructive feedback to help students improve their academic performance.
- Provide guidance and mentorship to students, offering academic support and career advice.
- Mentor BS students in their research projects, providing guidance on topics, methodologies, and project development.
- Supervise MS students' research work, guiding them through thesis development, research design, data analysis, and documentation.
- Serve as an academic advisor for both UG and PG students, assisting them in course selection and career planning.
- Build and maintain connections with industry professionals and organizations to facilitate internships, collaborations, and job opportunities for students.

Lab Instructor

Fast NUCES, Lahore

📅 2021 - 2023   Lahore, Pakistan

- Trained and developed students' skills in Python, C++ and assembly language compiler
- Used lectures, demonstrations and discussions to instruct students individually and in small groups
- Tested and evaluated student progress to determine effectiveness and impact of teaching methods, materials and projects
- Other job responsibilities include lab manual preparation for each lab, addressing students queries regarding the tool, development of quizzes, midterm and final exams.

Research Assistant

Department of Computer Science, Fast Lahore

📅 March 2022 - December 2022   Lahore, Pakistan

- Conduct extensive literature reviews to identify gaps in existing research.
- Summarize and analyze relevant studies, papers, and articles to provide context for the research.
- Collaborate with the research team to brainstorm and generate research ideas and hypotheses.
- Identify novel and significant research questions or areas of inquiry.

EDUCATION

Ph.D in Computer Science

Lahore College for Women University, Lahore

📅 2023   CGPA: 3.98

Thesis Title : Security Protocols for Internet of Bio Nano Things using Bio-Inspired Approaches

MS in Computer Science

Lahore College for Women University, Lahore

📅 2012   CGPA: 3.43

Thesis Title: Non-functional requirements for Software Oriented Architecture

BS in Software Engineering

International Islamic University, Islamabad

📅 2009   CGPA: 3.6

FYP: Development of Teachers Feedback system using C. Net

RESEARCH AREA

- Requirement Engineering
- Machine Learning
- Internet of Bio Nano Things
- Access Control

COURSES TAUGHT

- Computer Organization and Assembly language
- Object Oriented Analysis and Design
- Software Testing and Quality Assurance

PROGRAMMING SKILLS

Python	●●●●○
Assembly Language	●●●○○
C#	●●●●○
C++	●●●●●
C	●●●●●

SOFTWARE TOOL

Latex

MS Office

Contributing Content Writer Hackernoon2021 - PresentLahore, Pakistan

- Creating engaging technology related content, in the form of articles, for a top tech publishing company. Profile Link: https://hackernoon.com/u/sidrazafar

Research Assistant

Department of Computer Science, Fast Lahore

📅 March 2022 - December 2022   Lahore, Pakistan

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- Collaborate with the research team to brainstorm and generate research ideas and hypotheses.
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PUBLISHED PAPERS

- Bakhshi, Taimur, and Sidra Zafar. "Hybrid Deep Learning Techniques for Securing Bioluminescent Interfaces in Internet of Bio Nano Things." Sensors 23.21 (2023): 8972.
- Zafar, Sidra, et al. "Securing bio-cyber interface for the internet of bio-nano things using particle swarm optimization and artificial neural networks based parameter profiling." Computers in Biology and Medicine 136 (2021): 104707. Impact Factor: 6.69
- Zafar, Sidra, et al. "A systematic review of bio-cyber interface technologies and security issues for internet of bio-nano things." IEEE Access 9 (2021): 93529-93566. Impact Factor: 3.5
- Malik, Ahmad Kamran, Naina Emmanuel, Sidra Zafar, Hasan Ali Khattak, Basit Raza, Sarmadullah Khan, Ali H. Al-Bayatti, Madini O. Alassafi, Ahmed S. Alfakeeh, and Mohammad A. Alqarni. "From conventional to state-of-the-art IoT access control models." Electronics 9, no. 10 (2020): 1693. Impact Factor: 2.9
- Zafar, Sidra, et al. "Channel impulse response-based physical layer authentication in a diffusion-based molecular communication system." 2019 UK/China Emerging Technologies (UCET). IEEE, 2019.
- Zafar, Sidra, et al. "Molecular Communication for Nano networks" : 7th International Conference on Computational Modeling (ICCM'16), UC Berkeley, USA, 1-5 August 2016.

MS-THESIS UNDER SUPERVISION

🔗 **Severity Prediction of Road Traffic Accidents Using Bio-Inspired Features Selection and Neural Networks**

STRENGTHS

Hard-working   Analytical and Conceptual Skills

Motivator & Leader   Decision making   Strategic thinking

Flexibility and Adaptability

REFEREES

Dr. Mariam Rehman

@ Department of Information Technology, Government College University Faisalabad

✉ mariamrehman@gcuf.edu.pk

Dr. Ayesha Iqbal

@ Department of Computer Science, Lahore College for Women University

✉ ayesha.iqbal@gmail.com