JENIYA SULTANA

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PROFESSIONAL SUMMARY

With a strong academic background and research experience in Computer Science, I am confident in my ability to contribute to the advancement of technology. Holding Bachelor's and Master's degrees, two peer-reviewed publications, and experience as a graduate assistant with CODERS and ROSE Grant, I am eager to bring my expertise to the team. My goal is to apply cutting-edge technologies to develop innovative solutions, particularly in IoT, artificial intelligence, machine learning, computer vision and computer science education, to achieve impactful results.

EDUCATION

Master of Science in Computer Science, 07/2024
Missouri State University - Springfield, MO
CGPA- 3.89/4.00

Graduate Certificate in Software Engineering, 05/2024
Missouri State University - Springfield, MO
CGPA- 4.00/4.00

Bachelor of Science in Computer Science and Engineering, 12/2019
Chittagong University of Engineering and Technology – Bangladesh
CGPA – 3.51/4.00

WORK HISTORY

Graduate Assistant, 08/2022 – 07/2024
Computer Science Opportunities, Development, and Education in Rural Schools (CODERS) Project, Springfield, MO

- Developed curriculum and instructional materials for K-12 teachers
- Conducted hands-on training with tools like Micro:bit, Scratch, and drones
- Organized workshops and computer science Olympiads

Graduate Assistant, 06/2023 - 07/2023
Computer Science Research Opportunity for Smart Environments (ROSE), Springfield, MO

AWARDS

- Graduate College Thesis Funding Award, FA2023
- Bears Spotlight, Computer Science Blog (Jeniya Sultana - Spotlight)
- Presenter at the 30th and 31st Annual Frank Einhellig Graduate Interdisciplinary Forum
- Best Thesis Award for undergrad research at CUET
- Second Runner-Up, NCPC (Programming Contest) among female candidates

PROJECTS

- Dynamic Context Detection from Spoken Text and Voice Command in Home Automation System.
- Context Recognition from Voice Commands in Smart Home.
- Application of Metamorphic Testing for Verification of Neural Network Model in Home Automation System.
- Students Attention Monitoring System using Facial Landmark Points.
- Research Paper Classification: A Neural Network Approach with Feature Selection and TF-IDF.
- Text Analysis: An end-to-end general-purpose easy-to-use thematic and sentiment analysis tool.

- Assisted STEM teachers with computer science concepts and research projects
- Supported teachers in preparing research posters and presentations

Lecturer, Computer Science, 11/2021 - 08/2022
Bangladesh University of Textiles, Dhaka, Bangladesh

- Taught computer programming to undergraduate students
- Managed academic tasks and assessments

Private Tutor, 01/2015 - 10/2021
Bangladesh
Tutored Math, ICT, and Chemistry for 12th grade students.

PUBLICATIONS

- A Framework for Context Recognition from Voice Commands and Conversations with Smart Assistants, **Jeniya Sultana**, Razib Iqbal, 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC), IEEE, 2024, pp. 218-221.
- Misinformation Detection in Cyber Smart Cities, Anupom Mondol, **Jeniya Sultana**, Mohiuddin Ahmed, ANM Bazlur Rashid, Cybersecurity for Smart Cities: Practices and Challenges, Springer International Publishing, 2023, pp. 105-120.

REFERENCES

- Dr. Mohammed Y. Belkhouche, Assistant Professor, Department of Computer Science
  417-836-5789, YassineBelkhouche@MissouriState.edu
- Dr. Razib Iqbal, Associate Professor, Department of Computer Science
  417-836-4944, RIqbal@MissouriState.edu
- Missy Poort, Academic Administrative Assistant II, Department of Computer Science
  417-836-6299, MissyPoort@MissouriState.edu
- Dr. Lloyd A. Smith, Professor, Department of Computer Science,
  417-836-4834, LloydSmith@MissouriState.edu
- Dr. Songfeng Zheng, Professor, Department of Mathematics,
  417-836-6037, SongfengZheng@MissouriState.edu

- Developing a tracking system for human with carried baggage based on Mean Shift and Particle Filter algorithm aided with Sliding Window Detection.
- Crude Oil Price Prediction.

SKILLS

C, C++, Algorithm and Data Structure, Large Language Model, Numpy, Matplotlib, Pandas, Tensorflow, Data Analysis, Object Oriented Programming, Software Quality Assurance, Software Testing, Human Computer Interaction, Web Development, WordPress, Python-OpenCV, Java, HTML & CSS, PHP & MySQL, NodeJS, ExpressJS, MongoDB.

Microsoft Office, Paint, Photoshop, Illustrator.

TRAINING

- Web Strategy and Development Training [Missouri State University]
- Social-Behavioral-Educational Researchers Training, Human Research [CITI Program]
- CCNA [IICT, CUET]
- Graphic Design [Brain Tuners]
- Web Development [IICT, CUET and Udemy]
- Ethical Hacking [Udemy]
- App Development [Udemy]
- Industrial Attachment training at BBTS in 2019.