

JENIYA SULTANA

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, peer-reviewed publications, and experience in academia and research, I am eager to bring my expertise to the team.

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

STEM Instructor, October 2024 - Present

Discovery Center of Springfield (DCS), Springfield, MO

- Develop and implement educational programs and interactive, hands-on activities aligned with national STEM standards.

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 and conducted hands-on training with tools like Micro:bit and Scratch

Graduate Assistant, 06/2023 - 07/2023

Computer Science Research Opportunity for Smart Environments (ROSE), Springfield, MO



Springfield, Missouri 65806



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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

Lecturer, Computer Science, 11/2021 - 08/2022

Bangladesh University of Textiles, Dhaka, Bangladesh

- Taught computer programming to undergraduate students

Private Tutor, 01/2015 - 10/2021

Bangladesh

Tutored Math, ICT, and Chemistry for 12th grade students.

PUBLICATIONS

- DyCoDe: Dynamic Context Detection from Voice Commands and Conversations in Smart Homes, **Jeniya Sultana**, Razib Iqbal, In Proceedings of the 2025 IEEE 22nd Consumer Communications & Networking Conference (CCNC).
- 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.
- Metamorphic Testing for Investigation of Context Recognition from Smart Home Voice Commands, Fahima Hasan Athina, **Jeniya Sultana**, Debaleen Das Spandan, Razib Iqbal, In Proceedings of the 2024 7th Conference on Cloud and Internet of Things (CIoT).
- 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.