Sirazum Munira Tisha

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Professional Preparation

Louisiana State University, Baton Rouge, LA	Computer Science	Ph.D., (May, 2023 (Expected))
Louisiana State University, Baton Rouge, LA	Computer Science	M.Sc., 2019
Rajshahi University of Engineering & Technology, Bangladesh	Computer Science & Engineering	B.Sc.(Engg.), 2014

Appointments

Graduate Research Assistant	Louisiana State University	May 2020 - Present
Graduate Extern	McKinley Senior High School, Baton Rouge, LA	Aug 2019 - May 2020
Graduate Teaching Assistant	Louisiana State University	Aug 2017 - Apr 2019
Graduate Research Assistant	Louisiana State University	Aug 2016 - Aug 2017

Experiences

- Currently developing an automated grading system using machine learning for high school level CS for all course named Introduction to Computational Thinking (ICT). This research is funded by Louisiana Department of Education and NSF CS-for-all grants.
- Served as team leader for developing video games in a graduate level course project
- Served as an Instructor and coordinator for two summer term local high school teacher training program to prepare themselves to teach ICT course.
- Served as a teaching assistant for courses like Computer Graphics, Video game design, Programming with C/C++, Statistics and Graphs in MATLAB, Computer Science with C++ (labs), Computer Science II majors(labs).
- Developed a multi-modal fusion system by fusing Kinect depth sensor and Thermal camera for 3D human body shape estimation as masters' theses research work.
- Taught AP Computer Science Principles in a local high school.

Technical Strengths

- **Languages Proficient:** Python, Java, C++, SQL, Shell Scripting, Prior Experience: C, C#
- **Machine Learning:** WEKA, Scikit-learn (Python)

- **Additional Python Libraries/Math and Stats:** Pandas, NumPy, Pygment, Seaborn, TensorFlow, PyTorch, SciPy, OpenCV, Matplotlib, MATLAB
- **GPU Programming:** NVIDIA CUDA
- **Computer Graphics:** OpenGL, WebGL, Unity, Blender, MeshLab, Meshmixer, InVesalius
- **Web:** XML, JavaScript, HTML, PHP
- **SDLC/Documentation:** LaTex, Overleaf
- **Platforms/ Frameworks:** Windows, UNIX/Linux •
- **Others:** Git

Publications

- **S. Tisha**, R. Oregon, G. Baumgartner, F. Alegre, J. Moreno, **An Automatic Grading System for a High School-level Computational Thinking Course,** Software Engineering Education for the Next Generation (SEENG@ICSE), 2022

- Tisha, Sirazum Munira, **Thermal-Kinect Fusion Scanning System for Body shape Inpainting and Estimation under Clothing** (2019). *LSU Master's Theses*. 5018. https://digitalcommons.lsu.edu/gradschool_theses/5018

Scholarships, Awards, Training, and Involvements

- **Scholar:**
  - SEC Emerging Scholars Career Preparation Workshop, 2022
  - Anita B. Org Grace Hopper Celebration, 2018
- **Travel grant:**
  - SEC Emerging Scholars Travel grant, 2022
  - Sweden-Bangladesh travel grant, 2017
- **Award:**
  - EECS meritorious award, 2022 Spring EECS Graduate Student Research Symposium at LSU, poster presentation segment.
  - Student of the year award, undergraduate level, 2014

- **Teaching related course:** "Motivating Learners, Introduction to Learning Mindsets**"**
- **Cultural Coordinator:** Bangladeshi Student Association at LSU (BSA@LSU), 2017-2018
- **Member:** IEEE, ACM, Women in Computer Science (WICS@LSU), Women in Machine Learning (WiML)
- **Volunteer:**
  - Student Volunteer, ASE 2021 conference
  - Judge, LSU Discover Undergraduate Research Program 2022