Sirazum Munira Tisha

Ph.D. Candidate

Division of Computer Science and Engineering

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# Professonal Preparation

Louisian State University, Baton Rouge, LA Computer Science Ph.D., (ABD) 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).
* Served as team leader for developing video games in a graduate level course project
* Served as an Instructor and co-ordinator 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 (**Accepted**)

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

# Scholarships, Awards and Involvements

* **Scholar:** Anita B. Org Grace Hopper Celebration, 2018
* **Travel grant:** Sweden-Bangladesh travel grant, 2017
* **Award:** Student of the year award, undergraduate level, 2014
* **Cultural Co-ordinator:** Bangladeshi Student Association at LSU (BSA@LSU), 2017-2018

• **Member :** IEEE, ACM, Women in Computer Science (WICS@LSU)

• **Volunteer :** ASE 2021 conference