Sirazum Munira Tisha

Ph.D. Candidate

Division of Computer Science and Engineering

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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 Teaching Assistant (Instructor in Practice) Louisiana State University Jan 2023 - Present

Graduate Research Assistant Louisiana State University May 2020 – Dec 2022

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

* Instructing Database Management Systems to undergraduate level.
* 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 an Instructor and coordinator for three summer terms local high school teacher training program to prepare themselves to teach ICT course.
* Served as team leader for developing video games in a graduate level course project
* 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

* **Research grants:**
  + SEC Emerging Scholars 2022
* Received $3000 grant. Funded 5 undergrade students for preparing data for autograder project.
* **Scholar:**
  + SEC Emerging Scholars Career Preparation Workshop, 2022
  + Anita B. Org Grace Hopper Celebration, 2018
* **Travel grants:**
  + SEC Emerging Scholars Travel grant, 2022
  + Sweden-Bangladesh travel grant, 2017
* **Awards:**
  + EECS meritorious award, 2022 Spring EECS Graduate Student Research Symposium at LSU, poster presentation segment.
  + Student of the year award, undergraduate level, 2014
  + Finalist, 3 Minute Thesis Competition, Louisiana State University 2022
* **Review/Judging:**
  + Judge, Louisiana State University Graduate Research Conference, 2023 (Oral and Poster)
  + Judge, 2023 Region VII Science & Engineering Fair (High school Senior Division)
  + Reviewer, poster section, ACM SIGCSE 2023 conference
  + Judge, LSU Discover Undergraduate Research Program 2022
* **Teaching related course:** “Motivating Learners, Introduction to Learning Mindsets**”**
* **Training:** Improv and Comedy Theatre Teacher Training 2023
* **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, Automated Software Engineering (ASE) 2021 conference