

Sirajam Munira

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Education

Rensselaer Polytechnic Institute Ph.D in Computer Science Primary research interest: Applied AI and LLM, HCI	Aug 2024 - Present Troy, NY, USA
Rensselaer Polytechnic Institute M.S in Computer Science	Aug 2024 - May 2026 Troy, NY, USA
Jahangirnagar University B.Sc in Information Technology	Feb 2018 - Mar 2023 Dhaka, Bangladesh

Publications

Does Country Matter? Evaluating Geographic Sensitivity of Large Language Models in Zero-Shot Chronic Kidney Disease Screening <i>S Munira</i> , MA Kabir HIKM (Health Informatics Knowledge Management)	Aug 2026
LLM4CKD: Large Language Models for Early Stage Chronic Kidney Disease Screening MA Kabir, <i>S Munira</i> ICDM (IEEE International Conference on Data Mining)	Aug 2026
From Many to Meaningful: Feature-Guided Zero-Shot Chronic Kidney Disease Screening using Large Language Models MA Kabir, <i>S Munira</i> AIME (Artificial Intelligence in Medicine'26: 24th International Conference) (10.1007/978-3-032-30710-1_5)	July 2026
The Day My Chatbot Changed: Characterizing the Mental Health Impacts of Social AI App Updates via Negative User Reviews <i>S Munira</i> , L Manikonda WebSci Companion'26: 18th ACM Web Science Conference (10.1145/3795513.3807437)	May 2026
Community-Based Early-Stage Chronic Kidney Disease Screening using Explainable Machine Learning for Low-Resource Settings MA Kabir, <i>S Munira</i> , DT Azad, SM Ikram, MHR Sarker, SMA Hanifi IJMI (International Journal of Medical Informatics) (10.1016/j.ijmedinf.2026.106435)	Apr 2026
Turning Trash into Treasure: Developing an Intelligent Bin for Plastic Bottle Recycle <i>S Munira</i> , N Paul, MA Alam, MM Rahman, MS Kaiser JSC (Journal of Social Computing) (10.23919/JSC.2024.0001)	Mar 2024

Professional Experience

Graduate Research Assistant Rensselaer Polytechnic Institute, USA Conduct research for the NSF-funded GenAI in Higher Education project (genaiinhighered.github.io), examining the impact of generative AI on student learning, critical thinking, and learning outcomes.	Jan 2026 - Aug 2026
Graduate Teaching Assistant Rensselaer Polytechnic Institute, USA Assisted in the course "CSCI 4460/6460 Large-Scale Programming & Testing" in Fall 2024, "CSCI 4380	Aug 2024 - Dec 2025, Aug 2026 - Present

Database System" in Spring 2025, Fall 2025, and Fall 2026, and **"CSCI 2300 Introduction to Algorithms"** in Summer 2025

- Evaluated and graded the assignments, homework, and answer sheets of the students
- Managed the attendance and teamwork of the students and guided them if they faced any difficulties

Software Engineer

Aug 2023 - Jul 2024

BJIT Group, Bangladesh

- Collaborated with the team to maintain the backend of an e-commerce website named "Rakuten"
- Developed expertise in Java EE, Spring Boot, Core Java, React, DevOps, and AWS, emphasizing OOP, design patterns, security, and proficient GitHub collaboration.

Programming Achievements

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| • IEEEExtreme 16.0 Programming Competition (2022) | 9th (Top 12% in Bangladesh) |
| • Ada Lovelace National Girls' Programming Contest (2021) | 6th (Top 15% in Bangladesh) |
| • Inter-University Girls' Programming Contest (2019) | 9th (Top 12% in Bangladesh) |

Academic Projects

Animated Landscape of JU with OpenGL

- Developed a computer graphics project using C++ programming, OpenGL and GLUT libraries featuring dynamic design and animation

Cafeteria billing system using assembly language

- Built a project using assembly language to take customer orders and quantity and show the total bill

Portfolio Website with HTML CSS JS

- Assembled a personal portfolio website with responsive design and interactive elements of the portfolio of their work

Blood Bank Management System CRUD with Thymeleaf

- Designed a web-based Blood Bank Management System using Java Spring Boot for the backend, Thymeleaf for server-side templating, and HTML/CSS with Bootstrap for the frontend that provides essential features for viewing, adding, updating, and deleting patient data

Full Stack Online Book Library Management Application

- Developed a full-stack online book library application using Spring Boot, Spring Security, MySQL, React JS, Vite, and Bootstrap to provide secure role-based access, efficient database management, and an interactive platform for book borrowing, reserving, reviewing, and user authentication.

Activities

Computer Science Grad Representative , RPI	2024 - Present
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Creative Director and Social Media Manager , RPI BDSA (Bangladesh Student Association)	2025 - 2026
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Leadership

Chair Person IEEE Jahangirnagar University Student Branch	2023 - 2024
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IEEE Xtreme Ambassador IEEE Jahangirnagar University Student Branch	2023
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Vice Chair IEEE Computer Society JU Student Branch Chapter	2022 - 2023
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