

Curriculum Vitae

Rudaiba Adnin

Contact Information

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Research Interests

My research interest is at the intersection of Computer-Supported Cooperative Work (CSCW), Human-Computer Interaction (HCI), and Accessible Computing. Currently, I am interested in understanding the accessibility of recent GenAI-powered tools (e.g. ChatGPT, Be My AI) from the perspective of blind and low-vision individuals.

Education

- **Northeastern University** Boston, MA, USA
PhD in Computer Science Fall 2023 - Present
- **Bangladesh University of Engineering and Technology (BUET)** Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering Feb 2016 - Feb 2021
- **Holy Cross College** Dhaka, Bangladesh
Higher Secondary School Certificate in Science July 2013 - August 2015

Experiences

- **Technology, Equity, and Accessibility Lab (TEA Lab)** Boston, MA, USA
Research Assistant March 2023 - Present
 - Here, I am engaged in research projects under the supervision of [Prof. Maitraye Das](#)
- **Next-Generation Computing Lab** BUET, Dhaka, Bangladesh
Research Collaborator August 2020 - August 2023
 - Here, I was engaged in several research projects under the supervision of [Prof. A. B. M. Alim Al Islam](#) and [Prof. Sriram Chellappan](#).
- **Therap BD Ltd.** Dhaka, Bangladesh
Database Engineer March 2021 - July 2023

This software service serves people with disabilities in the USA and Canada. Here, I perform the following responsibilities.

 - **Custom Reports:** I wrote SQL queries to create reports of health data and tuned them to improve performance by analyzing user requirements.
 - **Patching:** I patched single instances and container Oracle databases, and RAC systems with up-to-date patches.
 - **R&D:** I performed extensive R&D on new versions of Goldengate, SQLTexplain, and DBSAT.
 - **Scripting:** I wrote scripts to automate DBA work by using Shell Script, Python, and Java.

- **Training:** I trained junior engineers by explaining different modules of the software and illustrating the database.

Other Experiences

- **[Presenter [[videos](#)]** Presented in ASSETS 2024, ACM COMPASS 2023, CSCW 2022, Mo-biQuitous 2022, ACM COMPASS 2022, HCII 2022, ACM NSysS 2022, and ACM NSysS 2021
- **[Reviewer]** Reviewed for CHI 2025, CHI 2024, ACM COMPASS 2024, ACM COMPASS 2023, CSCW 2023, and CSCW 2022
- **[Student Volunteer]** Served as a student volunteer for ASSETS 2024 and ACM COMPASS 2023
- **[Member]** [ACM Student Member](#), Active Member of [BWCSE](#)
- **[Mentor]** Mentored six undergraduate students in research projects
- **[Tutor]** Tutored 9th to 12th grades students for five years

Honors and Awards

- [2023] Khoury Distinguished Fellowship
- [2022] [Runner-up Paper Award](#) at ACM NSysS 2022!
- [2022] Registration Waiver Grant to attend ACM COMPASS 2022
- [2021] [Best Paper Award](#) at ACM NSysS 2021!
- [2020] University Merit Scholarship (Level 4)
- [2016] University Admission Test Merit Scholarship
- [2015] National Higher Secondary School Merit Scholarship by the Government of Bangladesh
- [2013] National Secondary School Merit Scholarship by the Government of Bangladesh
- [2007] Primary School Merit Scholarship by the Government of Bangladesh

Publications

Use of GenAI

- **Examining Student and Teacher Perspectives on Undisclosed Use of Generative AI in Academic Work:** Accepted at CHI 2025 (Acceptance rate: 25.1%), [\[pdf\]](#)
[Rudaiba Adnin](#), Atharva Pandkar, Bingsheng Yao, Dakuo Wang, [Maitraye Das](#)
Artifact: Questionnaire, Interview Guide; Method: Mixed-method; Data: Survey, Interviews; Participant: Students; Analysis: Reflexive thematic analysis
- **“I look at it as the king of knowledge”: How Blind People Use and Understand Generative AI Tools:** Published in ASSETS 2024 (Acceptance rate: 30%), [\[pdf\]](#), [\[doi\]](#)
[Rudaiba Adnin](#), [Maitraye Das](#)
Artifact: Questionnaire; Method: Interview study; Data: Interviews; Participant: Blind individuals; Analysis: Reflexive thematic analysis

Underrepresented Groups

- **Focusing on the Unfocused: Understanding the Impact of Online Interactions with Small-Scale Non-Profit Organizations Working for Benefit of Street Children in Bangladesh** : Published in ACM COMPASS 2023, [\[pdf\]](#), [\[doi\]](#)
Rudaiba Adnin, Ishita Haque, Sadia Afroz, Alvi Md. Ishmam, Sriram Chellappan, A.B.M. Alim Al Islam
Artifact: Questionnaire; Method: Interview study; Data: Interviews; Participant: NPOs and Donors; Analysis: Thematic coding
- **Investigating Human Factors in Willingness to Donate to the Small-scale Non-profit Organizations in Bangladesh**: Published in the CSCW 2022 Posters track, [\[pdf\]](#), [\[doi\]](#)
Rudaiba Adnin, Ishita Haque, Sadia Afroz, Alvi Md. Ishmam, A.B.M. Alim Al Islam
Artifact: Questionnaire; Method: Survey study; Data: Survey; Participant: People of all classes; Analysis: Statistical analysis; Tech: Pandas, Scikit-learn, Plotly
- **A Hiring Story: Experiences of Employers in Hiring CS Graduates in Software Startups**: Published in the CSCW 2022 Posters track, [\[pdf\]](#), [\[doi\]](#)
Rudaiba Adnin, Sadia Afroz, Muhtasim Ulfat, Anindya Iqbal
Artifact: Questionnaire; Method: Interview study; Data: Interviews; Participant: Employers of software startups; Analysis: Thematic coding

Social Media

- **InnerEye: A Tale on Images Filtered using Instagram Filters - How Do We Interact with Them And How Can We Automatically Identify The Extent of Filtering?**: Accepted to Mobiquitous 2022, [\[pdf\]](#), [\[doi\]](#)
Gazi Abdur Rakib, Rudaiba Adnin, Shekh Ahammed Adnan Bashir, Chashi Mahiul Islam, Abir Mohammad Turza, A.B.M. Alim Al Islam
Artifact: Scenario, Questionnaire, Web tool; Method: Survey, User evaluation; Data: Survey, Interaction trace; Participant: Social media users; Analysis: Statistical analysis; Tech: Tensorflow, Pandas, Scikit-learn, Flask, Javascript, SQLite, Inkscape, Matlab

Artificial Intelligence

- **EmoBot: Artificial emotion generation through an emotional chatbot during general-purpose conversations**: Published in Cognitive Systems Journal 2023, [\[pdf\]](#), [\[doi\]](#)
Ehtesham-ul-koushik, Jacob'D Rozario, Rudaiba Adnin, Farhan Tanvir Utshaw, Fabiha Tasneem, A.B.M. Alim Al Islam
Artifact: ChatBOT, Questionnaire; Method: Implementation, User evaluation; Data: Survey, Interaction trace; Participant: People of all ages; Analysis: Statistical analysis; Tech: Pandas, Scikit-learn, Python

Online Abuse & Privacy

- **'A Tale on Abuse and Its Detection over Online Platforms, Especially over Emails': From the Context of Bangladesh** : Published in ACM NSysS 2021 (Best Paper Award, Acceptance rate: 16.67%), [\[pdf\]](#), [\[doi\]](#)
Ishita Haque, Rudaiba Adnin, Sadia Afroz, Faria Huq, Sazan Mahbub, A.B.M. Alim Al Islam
Artifact: Questionnaire; Method: Mixed-method study; Data: Interviews, survey; Participant: People who use social media; Analysis: Thematic coding, Statistical analysis; Tech: Pandas, Scikit-learn, Plotly

- **Citadel: An Automated Abuse Detection System to Detect and Prevent Abusive Behaviors over Emails:** Published in ACM NSysS 2022, (Runner-up Paper Award, Acceptance rate: 27%) [[pdf](#)], [[doi](#)]
Ishita Haque, [Rudaiba Adnin](#), Sadia Afroz, Faria Huq, Sazan Mahbub, [Sami Azam](#), [A.B.M. Alim Al Islam](#)
Artifact: Chrome extension, Questionnaire; Method: 3-day Field study; Data: Interaction trace, Survey; Participant: Frequent email users; Analysis: Statistical analysis; Tech: Tensorflow, Pandas, Django, Javascript, SQLite, Inkscape, Plotly.

Online Learning

- **An Educational Ecosystem Based on Blockchain:** Published in the ACM COMPASS 2023, [Rudaiba Adnin](#), [Rezwana Reaz](#)
Artifact: Flowchart
- **Note: Learn Online: High School Students' Adoption of Online Learning in Bangladesh during COVID-19 Pandemic:** Published in the ACM COMPASS 2022, [[pdf](#)], [[doi](#)]
[Rudaiba Adnin](#), Sadia Afroz, [Sadia Sharmin](#)
Artifact: Questionnaire; Method: Interview study; Data: Interviews; Participant: High school students; Analysis: Thematic coding
- **Students' Adoption of Online Platforms for Learning Purposes in Bangladesh:** Published in HCI International 2022, [[pdf](#)], [[doi](#)]
[Rudaiba Adnin](#), Sadia Afroz, Montaset Majid Taseen, [Sadia Sharmin](#)
Artifact: Questionnaire; Method: Mixed-method study; Data: Interviews, survey; Participant: University students; Analysis: Thematic coding, Statistical analysis; Tech: Pandas, Scikit-learn, Plotly

Disease Outbreaks

- **Revealing Influences of Socioeconomic Factors over Disease Outbreaks:** Published in the ACM COMPASS 2022 (Acceptance rate: 37%), [[pdf](#)], [[doi](#)]
S Mahmudul Hasan, Alabi Mahzabin, [Rudaiba Adnin](#), Ishrat Jahan Eliza, Ishika Tarin, Sadia Afroz, [A.B.M. Alim Al Islam](#)
Artifact: Scraped Data; Correlation Analysis: Pearson and Spearman correlation; Tech: Pandas, Numpy, Scikit-learn, NetworkX

Selected Academic Projects

- **Kanbas:** [[github](#)]
Users: Students, Teachers; Tech: React, Node.js, MongoDB
Description: I implemented an online learning portal where teachers can add learning modules, assignments, and quizzes for students.
- **eCommerce MarketPlace:** [[documentation](#)]
Users: Vendors, Customers; Documentation: Uml diagram, ERD; Tech: Laravel, MySQL, Javascript
Description: I implemented an Ecommerce Website to buy and sell products. Here, vendors could add new products to sell and customers could buy them.
- **Library Management System:** [[github](#)]
Users: Admin, Library members; Tech: Oracle, JavaFX
Description: I implemented a Library Management system where the library members could borrow books from the library. The admin could manage the database of books and library members.

- **Two Mode Car: Obstacle Avoiding Automated and Remote Control Car:** [\[video\]](#)
Tech: Atmega32, Sonar sensor, DC motor
Description: I implemented a two-mode car with remote controlling functions and automation.
The car would avoid obstacles while moving during automation mode.

Skills Summary

- **Research Method:** Interview, Survey, Mixed-method, Prototyping, Data Scraping
- **Analysis:** Reflexive thematic Coding, Significance tests, Correlation, Regression
- **Languages:** Python, PHP, C++, JavaScript, SQL, Bash, JAVA
- **Frameworks:** React, Django, Flask, Laravel, Pandas, NLTK, Numpy, Scikit-Learn, Plotly, Matlab
- **Tools:** Git, Docker, Oracle, MySQL, SQLite, Inkscape, LLM-APIs
- **Platforms:** Linux, Windows
- **Other Skills:** Leadership, Communication, Detail-oriented, Time Management