Sharmin Ahmed

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Education

- University of Utah
  Doctor of Philosophy, Computer Science | Fall 2023 - Present

- Shahjalal University of Science and Technology, Sylhet, Bangladesh
  Bachelor of Science (Engg.), Computer Science and Engineering
  CGPA: 3.78/4.00 | Graduation: 2021 | Class Position: 7th Out of 107 students

Skills

- Programming/Scripting Languages: (Proficient) Python, Java, C++; (Familiar) C, SQL
- Frameworks and tools: NumPy, SciPy, Scikit-Learn, Pandas

Publication

- Assessing Correlation Between Night-Time Light and Road Infrastructure: An Empirical Study (Accepted at 11th International Conference on Geographic Information Science - GIScience 2021 Short Paper Proceedings)
  DOI: https://doi.org/10.25436/E27P4D

Poster

- A Remote Sensing Approach: Where to Build the Next Road? (Accepted at NSysS 2021. 8th International Conference on Networking, Systems, and Security)

Graduate Projects

- Parental Oversharing: Investigating Sharenting Concerns in the Digital Age | Qualitative Analysis, Web Scraping
  Performed qualitative analysis and visualization from data collected from Reddit
- Fuzzing Xournal++: A hand note-taking software written in C++ | AFLplusplus
  Performed fuzzing with AFLplusplus on Xournal++, targeting the feature of annotation on top of PDFs
- Visualizing Open Data: Public Perceptions on Privacy | Semi-structured Interview, Qualitative Analysis
  Performed qualitative analysis on data collected from semi-structured interview
- ChitChat | Node.js, Socket, Java, MongoDB, Android Studio
  A client-server chat application built using Java Socket programming where multiple clients can connect to a server and chat among themselves.

Undergraduate Projects

- Sentiment Analysis | Python, Jupyter Notebook
  Used RNN and CNN models to predict the positivity and negativity from movie reviews. Also, a comparison among these models has been analyzed.
- Thesis Distribution System |Django, SQLite
  Developed thesis/project distribution system for final-year students to match up with potential supervisors. The project has user authentication, a notification system, a supervisor preference-giving option for students, and supervisor-assigning options for the committee.
- ChitChat | Node.js, Socket, Java, MongoDB, Android Studio
  A client-server chat application built using Java Socket programming where multiple clients can connect to a server and chat among themselves.

Research Projects

- Made-up email address| Qualitative Analysis, MAXQDA
  Performed qualitative analysis of data collected from semi-structured interview

Work Experience

- Therap (BD) Ltd. | Software Engineer, QA July 2021 – July 2023
  − Involved in Scheduling and EVV aggregation projects

Graduate Courses

- CS 6540: Introduction to Human-Computer Interaction
- CS 6965: Social Computing

- CS 6963: Applied S/W Security Testing
- CS 6545: Multidisciplinary Perspectives of HCI
- CS 6150: Graduate Algorithms
- CS 6495: Human Asp of Security & Privacy

Programming Experience

- Solved 650+ problems on different online judges – Codeforces, LightOJ, UVa, Rosalind (Bioinformatics)

Honors and Awards

- National Girls' Programming Contest, 2019 – 5th Place (National)| 1st Place (Sylhet Division)
- NSU Inter-University Girls' Programming Contest, 2018 – 7th Place (National)| 1st Place (Sylhet Division)
- Government Merit Scholarship, Higher Secondary School Certificate (2017 – 2020)