Jaydeb Sarker

Ph.D. Candidate in Computer Science, Wayne State University
Email: jaydebsarker@wayne.edu
Linkedin: linkedin.com/in/jaydeb-sarker
Google Scholar
Website: https://jaydebsarker.github.io/

RESEARCH INTEREST

Natural Language Processing, Software Engineering, Deep Learning

EDUCATION

Wayne State University — Detroit, MI
Ph.D. Candidate in Computer Science, GPA: 3.92/4.0 — *August 2019 – July 2024(Expected)*

Wayne State University — Detroit, MI
Masters in Computer Science, GPA: 3.90/4.0 — *August 2019 – August 2022*

Rajshahi University of Engineering and Technology — Rajshahi, Bangladesh
BSc. in Computer Science and Engineering, CGPA: 3.71/4.0 (Position: 7th/56) — *January 2012 – October 2016*

EXPERIENCES

Thomas C Rumble Graduate Fellow — August 2022 – May 2023
Wayne State University — *Detroit, MI*

Graduate Teaching Assistant — August 2019 – August 2022
Wayne State University — *Detroit, MI*

Lecturer — January 2017 – July 2019
University of Information Technology and Sciences — *Dhaka, Bangladesh*

Internship on 5G wireless communication — Sept 2017- Nov 2017
Otto-Von-Guericke-Universität — *Magdeburg, Germany*

PUBLICATIONS

1. Jaydeb Sarker, Asif Kamal Turzo, Ming Dong, and Amiangshu Bosu. Automated identification of toxic code reviews using toxicr. *arXiv preprint arXiv:2202.13056*, 2022 (Accepted to ACM Transactions on Software Engineering and Methodology (TOSEM)).

2. Jaydeb Sarker. 'who built this crap?' developing a software engineering domain specific toxicity detector. *Student Research Competition on the International Conference on Automated Software Engineering (ASE),Rochester, MI, USA*, 2022.

3. Jaydeb Sarker. Identification and mitigation of toxic communications among open source software developers. *Doctoral Symposium on the International Conference on Automated Software Engineering (ASE), Rochester, MI, USA*, 2022.

4. Sayma Sultana, Jaydeb Sarker, and Amiangshu Bosu. A rubric to identify misogynistic and sexist texts from software developer communications. In *Proceedings of the 15th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pages 1–6, 2021.

5. Jaydeb Sarker, Asif K. Turzo, and Amiangshu Bosu. A benchmark study of the contemporary toxicity detectors on software engineering interactions. In *Proceedings of the 27th Asia-Pacific Software Engineering Conference*, APSEC'20, page TBD, December 2020.

6. Jaydeb Sarker, Mustain Billah, and Md Al Mamun. Textual question answering for semantic parsing in natural language processing. In *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, pages 1–5. IEEE, 2019.

HONORS AND AWARDS

- Thomas C. Rumble University Graduate Fellowship for 2022-23 Academic Year, Wayne State University

- Deutscher Akademischer Austauschdienst (DAAD) scholarship, Germany- 2017

- Technical scholarship in RUET for the outstanding results from 2012 to 2016.

REVIEWING/PROFESSIONAL ACTIVITIES

1. Member of the program committee (Junior PC- reviewer) at the 2023 Mining Software Repositories Conference

2. Reviewer of Software Quality Journal 2022

3. Reviewer in MSR 2021 Shadow Program Committee member

4. Additional Reviewers within the ICSE 2021- Tool Demonstrations-track

TECHNICAL SKILLS

Skills: Analytical Problem Solving, Algorithms, Agile method in SE, Git
Languages: Java, Python , C, C++, SQL, MATLAB, HTML, CSS
Developer Tools: Jupyter Notebook, Scikit Learn, Keras, Tensorflow, Pytorch
Machine Learning: TClassification, Regression, Clustering, Deep Neural Models, BERT
Certifications: CCNA Routing and Switching

DEEP LEARNING TOOL

ToxiCR | *Python* [Github]

- A supervised learning based tool to identify toxic code review comments

CONFERENCE VOLUNTEER EXPERIENCE

1. 37th IEEE/ACM International Conference on Automated Software Engineering (ASE) 2022, Oakland Center, Michigan.

2. Worked as a Student Volunteer in the 44th ICSE-2022, In person Conference at Pittsburg, PA, USA.

3. Student Volunteer in the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE) 2021, Virtual (Original: Melbourne, Australia).

4. Worked as a Student Volunteer in the 43th ICSE-2021, Virtual Conference (Original: Madrid, Spain).

ANALYTICAL PROBLEM SOLVING

- Solved 150+ problems in Leetcode, UVA and LightOj online judges.

- Participated in programming contest in "RUET CSE-2012", participated ACM-ICPC preliminary contest in Dhaka Region-2014.

CERTIFICATION

CCNA Routing and Switching. The course includes Introduction to Networks, Routing and Switching Essentials, Scaling Networks and Connecting Networks.

References

Dr. Amiangshu Bosu,
Assistant Professor, Department of Computer Science
Wayne State University
5057 Woodward Ave., Suite 14200.1 Detroit, MI 48202
Email: amiangshu.bosu@wayne.edu