

Jaydeb Sarker

Ph.D. Candidate in Computer Science, Wayne State University

Email: jaydebsarker@wayne.edu

Linkedin: [linkedin.com/in/jaydeb-sarker](https://www.linkedin.com/in/jaydeb-sarker)

Google Scholar

Website: <https://jaydebsarker.github.io/>

RESEARCH INTEREST

Software Engineering, Natural Language Processing, Deep Learning, Explainable AI

EDUCATION

Wayne State University

Detroit, MI

Ph.D. Candidate in Computer Science, GPA: 3.92/4.0

August 2019 – May 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, Sayma Sultana, Steven Wilson, and Amiangshu Bosu. Toxispanse: An explainable toxicity detection in code review comments. In *Proceedings of the 17th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, Accepted in Technical Track
2. Jaydeb Sarker, Asif Kamal Turzo, Ming Dong, and Amiangshu Bosu. Automated identification of toxic code reviews using toxicr. *ACM Transactions on Software Engineering and Methodology*, February 2023
3. 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.
4. 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.
5. 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.
6. 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.

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.

REFERENCE

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