

# Jaydeb Sarker

Email: [jaydebsarker@wayne.edu](mailto:jaydebsarker@wayne.edu)  
Website: <https://jaydebsarker.github.io/>

## RESEARCH INTEREST

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Software Engineering, Natural Language Processing, Software Developers Interactions

## EDUCATION

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### Wayne State University

*Ph.D. in Computer Science, GPA: 3.97/4.0*

Detroit, MI

*Aug. 2019 – Present*

### Rajshahi University of Engineering and Technology

*BSc. in Computer Science and Engineering, CGPA: 3.71/4.0 (Position: 7<sup>th</sup>/56)*

Rajshahi, Bangladesh

*Jan. 2012 – Oct. 2016*

## EXPERIENCE

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### Graduate Teaching Assistant

*Wayne State University*

Aug 2019 – Present

*Detroit, MI*

- Software Engineering Lab  
[Winter-2021, Summer-21, Winter-22]
- Taught Courses: Problem Solving and Programming (Theory and Laboratory)  
[Fall-19, Winter-20, Summer-20, Fall-20, Summer-21]

### Lecturer

*University of Information Technology and Sciences*

Jan. 2017 – July 2019

*Dhaka, Bangladesh*

- Taught undergraduate programming, data structure and Algorithms courses
- Worked as a mentor for programming contest team

### Internship on 5G wireless communication

*Otto-Von-Guericke-Universität*

Sept 2017- Nov 2017

*Magdeburg, Germany*

- Goal: Beam steering from the antenna using USRPs.  
Outcome: 16- QAM produced the best accuracy using OFDM (Orthogonal Frequency Division Multiplexing).

## PUBLICATIONS

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1. 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.
2. 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.
3. 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.

## REVIEWING/PROFESSIONAL ACTIVITIES

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1. Reviewer in MSR 2021 Shadow Program Committee member
2. Additional Reviewers within the ICSE 2021- Tool Demonstrations-track
3. GTA Training Workshop, WSU-2021 (basic classroom management, grading, professional development)

## VOLUNTEER EXPERIENCE

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1. Student Volunteer in the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE) 2021 (Original: Melbourne, Australia).
2. Worked as a Student Volunteer in the 43th ICSE-2021, Virtual Conference (Original: Madrid, Spain).

## TALKS/PRESENTATION

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1. Presented paper in APSEC 2020, virtual presentation in available, [Link](#)

## PROJECTS

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**Basic Java Instant Messenger** | *Java* [Github] Sep 2021 – Dec 2021

- Java application based on GUI and Sockets+Streams where multiple clients can communicate with each other. In this project, I have used the modern software development concepts (Scrum, Sprint, Unit Testing, Static Analysis, Continuous Integration, Dynamic Analysis).

**Deep Pyramid LSTM Networks for Toxic Comment Classification**  
| *Python, Tensorflow* [Github] Jan 2020 – Apr 2020

- I and two of my group members developed a deep learning based model for detecting toxic contents in Software Engineering domain.

**City\_of\_Youtube\_Videos** | *Java EE (Servlet, jsp, apache tomcat server)* Sep 2019 – Dec 2019

- This is a graduate course project where I worked on some complex Database queries in MySQL and designed the system using Java EE (Servlet, jsp) and apache tomcat server.[Github]

## ANALYTICAL PROBLEM SOLVING

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- Solved 150+ problems in Leetcode, UVA and LightOj online judges.
- Participated programming contest in “RUET CSE-2012”, participated ACM-ICPC preliminary contest in Dhaka Region-2014.

## HONORS AND AWARDS

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- Deutscher Akademischer Austauschdienst (DAAD) scholarship, Germany- 2017
- Technical scholarship in RUET for outstanding result throughout 2012 to 2016

## LEADERSHIPS AND EXTRA-CURRICULAR ACTIVITIES

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- Coach of UITS programming contest team in National Collegiate Programming Contest (NCPC).
- Speaker of the seminar on “Higher Studies Abroad for the students of UITS” in 2018.

## CERTIFICATIONS

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

## TECHNICAL SKILLS

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**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

## REFERENCES

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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