

# Habibur Rahman

SOFTWARE ENGINEER · SAMSUNG R&D INSTITUTE BANGLADESH

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## Research Interests

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- Computer Vision
- Machine Learning
- Natural Language Processing

## Education

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### B.Sc. in Computer Science & Engineering

Dec 2017

RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY (RUET)

- Thesis: “Solving Percentage Word Problems by Semantic Parsing and Reasoning”
- Cumulative GPA: 3.77 out of 4.00
- Position: 6<sup>th</sup> among 117
- Award: Student of The Year (4<sup>th</sup> Academic Year)

## Professional Experience

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### Software Engineer

Jul 2019 – Present

SAMSUNG R&D INSTITUTE BANGLADESH LIMITED (SRBD), Dhaka - 1205, Bangladesh.

- Responsible for research and development of Convergence / IoT solutions in Windows Platform.

### Lecturer, Department of Computer Science and Engineering

Jan 2018 – Jul 2019

UNIVERSITY OF INFORMATION TECHNOLOGY & SCIENCES (UITS), Bangladesh

## Publications

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**Habibur Rahman**, Julia Rahman and Asmaul Husna. “WALGES: Weighted Probability Based Scoring Approach for Solving Algebraic Word Problems using Semantic Parsing”. In: IEEE International Conference on Electrical, Computer and Communication Engineering (ECCE), 7–9 February, 2019. <http://doi.org/10.1109/ECACE.2019.8679393>

ECCE'19

Asmaul Husna, **Habibur Rahman** and Emrana Kabir Hashi. “Statistical Approach for Classifying Sentiment Reviews by Reducing Dimension using Truncated Singular Value Decomposition”. In: IEEE International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT-2019). [Presented]. <https://www.dropbox.com/s/ygx1liblafeilo9h/ICASERT.pdf>

ICASERT'19

## Honors and Awards

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### Student of the Year, Department of Computer Science and Engineering

2015

RAJSHAHI UNIVERSITY OF ENGINEERING AND TECHNOLOGY

### Divisional Champion

2016

ACM - INTER COLLEGIATE PROGRAMMING CONTEST, DHAKA REGIONAL

### Runner Up, RoboTour and Programming Contest

2015


IEEE STUDENT BRANCH, RUET

## Software Projects

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### Java Repo Miner


2018

Language: Python,  habibrahmanbd/JavaRepoMiner

“Tool to detect java method signature after and before a commit, and to make a report of changing frequencies of Methods, Classes, Libraries, and Loops in a git repository”

### Bangla PDF to Bangla DOC Converter

2017

Language: JAVA,  habibrahmanbd/BanglaPDFtoBanglaDOC

“Desktop application to convert Document Files(.docx) from PDF files(.pdf)”

### Online Judging System

2015

Language: HTML, CSS & PHP  habibrahmanbd/onlinelabsystem

“To host programming contests online where platform has code compilation, highlight, submitting features on user side and on admin site, problem creation, update, input file, output file, run time etc. features are available”

### Daily Calorie Calculator

2014

Language: JAVA  habibrahmanbd/dailyCalorieCalculator

“Desktop Application to calculate daily Life Calorie earn and burn”

## Programming Contests & Analytical Problem Solving

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- ACM-ICPC Dhaka Regional, Bangladesh 2016
- National Collegiate Programming Contest, Bangladesh 2015 & 2016
- Cybarnauts National Programming Contest 2016
- 8<sup>th</sup> ICT Fest Programming Contest 2016
- RoboTour and Programming Contest, IEEE RUET Student Branch 2015
- BUET Inter University Programming Contest 2016
- RUET Intra University Programming Contest 2014
- Solved 50+ contests in Codeforces, *Rating*: 1448
- Solved 20+ contests in Codechef, *Rating*: 1977
- Participated 15+ contests in Toph, *Username*: habib\_rahman
- Solved 195 in Light OJ, *User ID*: 9823
- Solved 177 in Uva Online Judge *User ID*: 234262

## Memberships

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- Member, Syntax and Semantics Research Group, Bangladesh 2019
- Member, RUET Analytical Programming Lab 2013 – 2017
- Member, Robotic Society of RUET 2014 – 2017

## Services

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- **Programming Contest Mentor**, UITS Computer Club Jan 2018 – Jun 2019
- **Problem Setter and Judge**, Devskill Contest'15, RUET Codemash, RUET GyanJam, UITS AZPC 2017
- **Coach**, Teams for Programming Contests of UITS 2018–2019

## Technical Skills

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- **Programming Languages**: C/C++, Python, C#, Java, Matlab
- **Libraries**: Numpy, Scikitlearn, Matplotlib
- **Frameworks**: .NET, UWP

## Teaching

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|--|---------------------------|
| • CSE 101 - Introduction to Computer Systems     | Spring 2018 – Summer 2019 |
| • CSE 103 - Structured Programming Language      | Spring 2018 – Summer 2019 |
| • CSE 105 - Discrete Mathematics                 | Spring 2018 – Summer 2019 |
| • CSE 203 - Object Oriented Programming Language | Spring 2018 – Summer 2019 |
| • CSE 206 - Web Technology                       | Spring 2018               |
| • CSE 207 - Data Structures                      | Spring 2018 – Summer 2019 |
| • CSE 213 - Algorithms                           | Spring 2018 – Summer 2019 |
| • CSE 401 - Artificial Intelligence              | Spring 2018               |

## Web Profiles

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- **Google Scholar:** <https://scholar.google.com/citations?user=04qfMHwAAAAJ>
- **Research Gate:** [https://researchgate.net/profile/Habibur\\_Rahman51](https://researchgate.net/profile/Habibur_Rahman51)
- **Blog:** <http://blog.habibrahman.me>
- **LinkedIn:** <https://www.linkedin.com/in/habibrahmanbd/>
- **Github:** <https://www.github.com/habibrahmanbd/>
- **Quora Blog:** <https://habibrahman.quora.com/>
- **ICPCID:** <https://icpc.baylor.edu/ICPCID/ZRGSWBPI6H06>