

Sudipa Saha

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EDUCATION

Bangladesh University of Engineering and Technology

February 2017 - May 2022

Bachelor of Science in Computer Science and Engineering

Department of Computer Science and Engineering

CGPA: 3.56/4.00

RESEARCH EXPERIENCE

Analyzing Impacts on Physiological Aspects of Rickshaw Pullers due to Heat Exposure 2020 - 2023

- Supervisor: [A. B. M. Alim Al Islam](#)
- Collaborators: [Dr. Tauhidur Rahman](#)
- Objective: Reflecting on the impacts of environmental exposure upon human physiology, psychology, etc. within diversified communities such as rickshaw pullers who are always subjected to harsh environmental conditions with little to no measures taken against these harsh conditions. ([Link](#))

Interaction Based Credibility Analysis of Facebook News

2021 - 2022

- Supervisor: [Dr. Sadia Sharmin](#)
- Objective: Developed a method of detecting fake news using interaction metrics on Facebook. The proposed method outperforms existing content-based and NLP-based solutions and is also language independent. ([Link](#))

ACCEPTED PAPERS & POSTERS

- Sadia Sharmin, **Sudipa Saha**, Tasin Hoque, Khandaker Abrar Nadib - **Interaction Based Credibility Analysis of News on Facebook Using Machine Learning Methodologies**. *16th International Conference on Signal Image Technology & Internet based Systems(2022)*
- **Analyzing Impacts on Physiological Aspects of Rickshaw Pullers due to Heat Exposure**. *11th International Conference on Networking, Systems and Security(2024)*

EXPERIENCE

Senior Software Engineer | Enosis Solutions, Bangladesh

May 2024 - Present

- Working on developing a centralized solution for data conversion within an existing application.
- **TechStack** : .Net Core, SQL Server, PostgreSQL, MySQL, Virtual Machine

Software Engineer | Enosis Solutions, Bangladesh

May 2022 - April 2024

- Contributed to developing a web application that displays customer data and generates reports through an interactive dashboard.
- **TechStack** : Angular, .Net Core, SQL Server, Redis

LAB PROJECTS

- **Heuristic Analysis of bKash** | [Link](#)
Conducted a heuristic analysis of the mobile financial app bKash to identify existing usability issues and proposed solutions to resolve them.
- **Ping of Death and Ping Flood attack** | [Link](#)
Spoofed ICMP echo requests with an arbitrary IP address to overwhelm the victim and make it unresponsive in a Ping Flood attack and oversized ping packets were sent to the victim for a Ping of Death attack.
- **Cross Site Scripting Attack** | [Link](#)
Techstack: JavaScript, Elgg in Ubuntu VM Image
Designed a self-propagating worm with a malicious JavaScript program that forges HTTP requests directly from the victim's browser to make the attacker a friend, modify the victim's profile, posting on behalf of the victim.

- **Distracted Driver Action Classification** | [Link](#)
Techstack: CNN, ResNet, VGG16, Xception, MobileNet
 Constructed a DL model using CNN and transfer learning methods for classifying distracted driver activity.
- **Learn Math** | [Link](#)
Techstack: React.js, Node.js, PostgreSQL
 Developed a math learning platform where students can practice, watch tutorials and give quizzes. Instructors create Rubric-based written questions and tutorials and moderators check the quality of content.
- **Dino Run** | [Demo video](#) | [Link](#)
Instruments: ATMEGA-32, Led Matrix, Joystick, Sound Sensor
 This microcontroller project replicates the features of Google Chrome's popular Dinosaur game.
- **Trip Advisor** | [Link](#)
Techstack: PHP, HTML, CSS, PostgreSQL
 Developed a platform where users can search for hotels, book hotels, see a list of nearby places to see and provide hotel ratings.

SKILLS

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|------------------------|---|
| Languages | Java, C, C++, C#, Python, Matlab, Shell, JavaScript |
| Database | Oracle, MySQL, PostgreSQL, SQL Server |
| Version Control | Git(GitHub, Bitbucket), GitLab, Azure, Jira |
| Frameworks | React, Node, Angular, Ionic |
| Web Technology | HTML, CSS, Rest API |

EXTRA-CURRICULAR ACTIVITIES

- **Bangladesh Mathematical Olympiad** 2019 - 2021
 - Academic Team Member
- **BUET System Analysis, Design and Development community(BSADD)** 2020 - 2022
 - Volunteer
- **Bangladeshi Women in Computer Science and Engineering(BWCSE)** 2020 - 2021
 - Coordinator

ACHIEVEMENTS

- **5th** in Ada Lovelace Datathon, 2021
- **Finalist**, Pioneros 2.0 (2018)
- **Regional Champion**, Bangladesh Mathematical Olympiad (2014-2016)

REFERENCE

Dr. Sadia Sharmin

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 Department of Computer Science and Engineering
 Bangladesh University of Engineering and Technology, Dhaka
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