

# EHSANUR RAHMAN RHYTHM

SOFTWARE ENGINEER & DATA SCIENCE RESEARCHER



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I am Ehsanur Rahman Rhythm, currently pursuing a Master of Science in Software Engineering at Dhaka University, with a Bachelor of Science in Computer Science from Brac University. My professional experience spans roles in web development and academia, where I have excelled as a researcher and educator. Known for my effective teaching methods and ability to convey complex technological concepts clearly, I am committed to empowering students and professionals alike in their journey to excel in the field of computer science.

## PROFESSIONAL EXPERIENCE

### LEAD WEB DEVELOPER

RhyStart Technologies | Jun 2022 - Present

- Led the development and ongoing enhancement of a digital database management and verification system for *Marine Fisheries Academy* in Chattogram, Bangladesh, implemented with Laravel and Livewire frameworks, improving system performance and user interaction.
- Developed and maintained custom CMS websites for business and consultancy firms using WordPress, PHP & Laravel, ensuring advanced functionality and user-friendly interfaces.

## EDUCATION

**Master of Science in Software Engineering** | Institute of Information Technology, Dhaka University 2024 – 2025\*  
1<sup>st</sup> Semester Ongoing | Relevant courses: Secure Software Design and Programming, Distributed Software Engineering.

**Bachelor of Science in Computer Science** | Brac University 2020 - 2023  
GPA: 3.7 | Relevant courses: Database Management, Web Development, Software Engineering.

## SKILLS

**Programming Languages:** Proficient in Python, PHP, JavaScript, NodeJS, Java, HTML, CSS.

**Data Science and Machine Learning:** Experienced with Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch.

**Database Management:** Knowledgeable in MySQL, MongoDB.

**Website CMS:** Skilled in WordPress, Laravel, WooCommerce, Xenforo.

**Development Tools:** Advanced user of Visual Studio Code, PyCharm.

**Design and Media Editing:** Competent in Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro.

**Productivity Software:** Proficient in Microsoft Office Suite.

**Communication:** Strong written and verbal communication skills, demonstrated through effective teaching and published research.

**Problem Solving:** Exceptional at troubleshooting and resolving issues that arise during software development and research projects.

**Team Collaboration:** Experienced in working with diverse teams, as shown by collaborative projects and leadership roles.

**Languages:** Bengali, English.

## PUBLICATIONS

**ReSkipNet: Skip Connected Convolutional Autoencoder for Original Document Denoising** ICCIT 2023  
Mohammad Muhibur Rahman, Anushua Ahmed, Mohammad Rakibul Hasan Mahin, Fahmid Bin Kibria, Waheed Moonwar, **Ehsanur Rahman Rhythm** and Annajiat Alim Rasel - 10.1109/ICCIT60459.2023.10441086

**Siamese-Transformer Network for Offline Handwritten Signature Verification using Few-shot** ICCIT 2023  
Prattoy Majumder, AFM Mohimenul Joaa, **Ehsanur Rahman Rhythm**, Md Humaion Kabir Mehedi and Annajiat Alim Rasel - 10.1109/ICCIT60459.2023.10441035

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**Text-based Q&A: Automated Question Generation and Answering for Enhanced Data Processing** CATS 2023  
**Ehsanur Rahman Rhythm**, Abdul Halim Hosain, Nusrat Zaman Raya, Kazi Al Refat Pranta, Tonusree Talukder Trina, Md Sabbir Hossain, Md Humaion Kabir Mehedi and Annajiat Alim Rasel - 10.1109/CATS58046.2023.10424125

**Comparative Analysis of Traditional and Contextual Embedding for Bangla Sarcasm Detection in Natural Language Processing** COMNETSAT 2023  
Kaji Mehedi Hasan Fahim, Mithila Moontaha, Mashrur Rahman, **Ehsanur Rahman Rhythm** and Annajiat Alim Rasel - 10.1109/COMNETSAT59769.2023.10420673

**Advancements in Optical Character Recognition for Bangla Scripts** ASYU 2023  
MD Tanjim Mostafa, **Ehsanur Rahman Rhythm**, Md Humaion Kabir Mehedi and Annajiat Alim Rasel - 10.1109/ASYU58738.2023.10296550

**Sentiment Analysis of Restaurant Reviews from Bangladeshi Food Delivery Apps** ESCI 2023  
**Ehsanur Rahman Rhythm**, Rajvir Ahmed Shuvo, Md Sabbir Hossain, Md. Farhadul Islam and Annajiat Alim Rasel - 10.1109/ESCI56872.2023.10100214

## PROJECTS

**Jonogon.org** Feb 2024

- Contributed in an open-source online platform that empowers individuals and communities in Bangladesh to raise their voices, mobilize others, and hold decision-makers accountable. Currently a part of their Core Team to make changes and updates in the website.

**Marine Fisheries Academy Cadet Verification System** Feb 2024

- Developed a cadet database management system with verification feature for Marine Fisheries Academy of Bangladesh Navy with Laravel.

**Moz Education Website** Dec 2023

- Developed a educational consultancy website, focused on high traffic handling with course purchasing system.

**Shromik.org** May 2022

- Developed a comprehensive news portal website, focused on high traffic handling and optimized content delivery. Achieved a 99% performance score on GTmetrix by implementing efficient coding and optimization.

**HardPixel TV Sports Website** Nov 2021

- Spearheaded the development of a sports infotainment website using WordPress, enhancing interactive content delivery and user engagement. Collaborated with the design team to integrate innovative design features.

## VOLUNTEERING

**Research Assistant** | Brac University 2023 – 2024  
Relevant topics: Pattern Recognition, Distributed Software Engineering, Natural Language Processing.

**Secretary of Programming & Web Development** | BNMPC IT Club 2018 – 2019  
Relevant topics: Introduction to Web Development, Website Management.

## EXTRA

**Certified Data Engineer** | DataCamp - DE0014269262603 2024  
**Certified Associate Data Analyst** | DataCamp - DAA0018938299471 2024  
**Certified Associate Data Scientist** | DataCamp - DSA0011563929319 2024  
**Python 3 Programming Specialization** | University of Michigan - 4W3DYZBP7T4V 2024  
**Google Data Analytics Specialization** | Google - RA4NMMKFLF2R 2024  
**Research Assistant** | Brac University 2023