

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

SOFTWARE ENGINEER

DeliveryHobe | Nov 2024 - Present

- Optimized the performance of DeliveryHobe's web platform by improving page load times, enhancing API response efficiency, and ensuring a seamless user experience.
- Worked on implementing new features to enhance user and delivery partner workflows, using Next.js for frontend improvements and NestJS for backend integration.

RESEARCH ASSISTANT

Brac University | Nov 2024 - Present

- Conducting research on AI-powered enhancement of university life accessibility for blind individuals, focusing on improving navigation, object detection, and access to campus facilities such as classrooms, libraries, and medical centers.
- Collaborating on the development of machine learning-based assistive systems and systematic literature reviews to identify challenges faced by visually impaired students, aiming to publish impactful research on accessibility and inclusion.

CORE CONTRIBUTOR

Jonogon | Aug 2024 - Present

- Contributed to the development and maintenance of an open-source platform designed to amplify voices, mobilize communities, and hold decision-makers accountable.
- Collaborated with a dedicated team to ensure seamless functionality, accessibility, and reliability of the website, empowering individuals and communities to take collective action.

LEAD WEB DEVELOPER

RhyStart Technologies | Jun 2022 – Aug 2024

- 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*
GPA: 3.25 | 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.

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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

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

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

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.

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.

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 - RA4NMKFQLF2R 2024