

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.

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 - 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*
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.

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.

EHSANUR RAHMAN RHYTHM

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.
- 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 - RA4NMKFQLF2R 2024