EHSANUR RAHMAN RHYTHM

errhythm.me@gmail.com | Dhaka, Bangladesh | LinkedIn.com/in/errhythm

Results-driven Software Engineer & AI Researcher with expertise in full-stack development, AI-powered systems, and scalable applications. I am targeting a Full Stack Developer role specializing in React, Node.js, and Next.js, with adaptability for Frontend or Backend Engineer positions. Leveraging my skills in JavaScript, Python, PHP and modern frameworks, I deliver impactful, scalable solutions aligned with innovative company goals.

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER   DeliveryHobe | Nov 2024 - Present
- Optimized DeliveryHobe's web platform, reducing page load times by 35% and API response times by 40% through efficient Next.js frontend enhancements and NestJS backend integrations.
- Implemented features improving user and delivery partner workflows, boosting platform usability by 65%.

Tech Stack: Next.js, NestJS, JavaScript, Node.js, TailwindCSS

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.
- Conducted systematic literature reviews, contributing to publications on accessibility and inclusion.

Tech Stack: Python, PyTorch, Scikit-learn, Pandas, NumPy

CORE CONTRIBUTOR   Jonogon | Aug 2024 - Present
- Enhanced an open-source platform's reliability, increasing usability and enabling community-driven action for 10,000+ users.
- Collaborated on accessibility improvements, reducing user-reported issues by 20%.

Tech Stack: Next.js, tRPC, JavaScript, Node.js, TailwindCSS, Docker

LEAD WEB DEVELOPER   RhyStart Technologies | Jun 2022 – Aug 2024
- Led development of Marine Fisheries Academy's verification system, cutting data retrieval time by 50% using Laravel and Livewire.
- Built custom CMS solutions for businesses, improving client satisfaction scores by 60%.

Tech Stack: Laravel, Livewire, PHP, WordPress, MySQL

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: JavaScript, PHP, Node.js, Python, Java, HTML, CSS
AI & Data Science: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch
Databases: MySQL, PostgreSQL, MongoDB
Cloud & Dev Tools: Visual Studio Code, Cursor AI, PyCharm, Git, Docker
Frameworks & CMS: React, Next.js, NestJS, Laravel, WordPress, WooCommerce
Languages: Bengali, English.

PROJECTS

Marine Fisheries Academy Cadet Verification System (Visit)   Feb 2024
- Developed a cadet database management system with verification feature for Marine Fisheries Academy of Bangladesh Navy with Laravel, cutting data retrieval time by 50% and allowed thousands of cadets to verify themselves by their student ID easily.

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Facultypedia - A Faculty Review and Consultation Platform [(Visit)](Visit)   Feb 2024
- Developed a comprehensive faculty review and consultation platform designed to empower students to make informed decisions about their education.

Moz Education - Education Consultancy Platform [(Visit)](Visit)   Feb 2024
- Developed a robust platform for students seeking quality education, currently helping millions of students in United Kingdom.

Pyramid Game – A social Ranking Game based on a K-Drama [(Visit)](Visit)   Feb 2024
- Developed a full-fledged web application that people can use to create their own social experiments.

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*

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