

# PRITOM PAUL

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## EDUCATION

North East University Bangladesh

Sylhet, Bangladesh

B.Sc. (Engineering), Department of Computer Science and Engineering

May 2024

CGPA: 3.71/4.00

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## RESEARCH INTEREST

- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision (CV)
- Large Language Model (LLM)
- Artificial Intelligence (AI)
- Big Data Analysis

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## RESEARCH EXPERIENCE

Handwritten Bangla Word Recognition Through Image-to-Sequence Extraction

Undergraduate Thesis, North East University Bangladesh.

January 2023 – December 2023

- **Advisor:** Tasnim Zahan
- Designed and trained an Image-to-Sequence OCR model for handwritten Bangla word recognition.
- Built a CNN-BiLSTM architecture in Python/TensorFlow with a CTC-based sequence decoder.
- Collected, curated, and preprocessed 19,066 handwritten samples from CMATERdb, BanglaWriting, and self-generated data.
- Reached accuracy of 93.71%, demonstrating strong generalization even with a modest dataset size.

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## TEACHING EXPERIENCE

North East University Bangladesh

Sylhet, Bangladesh

Adjunct Faculty, Department of Computer Science and Engineering.

January 2025 – Present

- Teach core undergraduate courses including **Compiler Construction, Compiler Construction Lab, Software Engineering and Design Patterns, Software Engineering and Design Patterns Lab, Numerical Analysis, Numerical Analysis Lab, Introduction to Statistics, and Introduction to Computer Applications.**
- Instruct and mentor more than 200 students across multiple semesters, emphasizing conceptual clarity, problem-solving, and hands-on practice.
- Develop lectures, lab modules, and assessments aligned with program objectives and industry-relevant practices.

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## PROFESSIONAL EXPERIENCE

101 BD TECH

Jamalpur, Bangladesh

Software Engineer (Full Time)

July 2024 – December 2024

- Built core components of a WebRTC-powered Learning Management System for both web and desktop platforms.
- Wrote clean, efficient code in Python and JavaScript, and improved system performance through debugging and optimization.
- Designed scalable application modules and implemented backend integrations using SQL and NoSQL databases.
- Maintained technical documentation, collaborated within the SDLC workflow, and managed version control using Git.

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## VOLUNTEER EXPERIENCE

North East University Bangladesh CSE Society

Associate Programming Instructor

January 2021 – December 2023

- Instructed approximately 100 junior undergraduate students in programming languages (C/C++, Python), data structures, algorithms, and problem-solving.
- Spearheaded the organization of 3-4 programming contests and actively participated in problem development.

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## COMPETITIVE PROGRAMMING EXPERIENCE

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- ICPC Asia Dhaka Regional Contest – 2021 | Team: NEUB\_TeamXero
- ICPC Asia Dhaka Regional Contest – 2022 | Team: NEUB\_TeamXero
- ICPC Asia Dhaka Regional Contest – 2023 | Team: NEUB\_Believers
- NCPC ONSITE – 2023 | Team: NEUB\_Believers

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## PROJECTS

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### TripIt (Web Application)

- Used HTML, CSS, PHP, JavaScript & MySQL.
- Features: Login, registration, find travel destinations, book hotels, blog, etc.
- Source Code: [https://github.com/PritomPaul99/TripIt\\_SEProject](https://github.com/PritomPaul99/TripIt_SEProject)

### Handwritten English Word Recognition (Machine Learning Project)

- Used CNN, RNN (Bi-LSTM), CTC Loss, etc.
- Recognizes handwritten English words. Takes a single-word image as input and predicts the written word in the image.
- Source Code: <https://github.com/PritomPaul99/Handwritten-English-Word-Recognition-Using-CNN-RNN-Model>

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## STANDARDIZED TEST SCORE

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### International English Language Testing System (IELTS)

08 February 2025

Listening	Reading	Writing	Speaking	Overall Band Score
9.0	6.5	6.0	7.0	7.0

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## SKILLS SUMMARY

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- **Programming Languages:** C/C++, Python, Java, JavaScript, PHP, Go.
- **Web Development:** HTML, CSS, Bootstrap, Tailwind CSS, React, Node.js.
- **Machine Learning:** Deep Learning, Computer Vision, TensorFlow, Keras, Scikit-learn, PyTorch, etc.
- **Database Management System:** MySQL, MongoDB.
- **Tools:** Git, Github, Jira, Figma, LaTeX.
- **Others:** Object Oriented Programming (OOP), Software Development Life Cycle (SDLC).

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## REFERENCE

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### Dr. Mohammad Shahidur Rahman

Professor

Department of Computer Science and Engineering  
Shahjalal University of Science and Technology  
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### Al Mehdi Saadat Chowdhury

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