

Md Muhaiminul Islam Nafi

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OBJECTIVE

I am Md. Muhaiminul Islam Nafi. I am currently an undergrad student of Computer Science at BUET. I want to build a successful career using my technological knowledge and relevant skills. I want to contribute to the betterment of the place I am allowed to work for. I also want to hone my other skills like time management, fast adaptability, and creativity.

EDUCATION

MOTIJHEEL GOVT. BOYS' HIGH SCHOOL SSC — GPA: 5.00/5.00	2015-2017
NOTRE DAME COLLEGE DHAKA HSC — GPA: 5.00/5.00	2017-2019
BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY B.SC. IN COMPUTER SCIENCE AND ENGINEERING — CGPA: 3.96/4.00 (UP TO 7 TERMS)	2020-present

SKILLS

PROGRAMMING LANGUAGES	Python Javascript Typescript C c++ Assembly (x86, MIPS) Bash Java LaTeX
WEB DEVELOPMENT	HTML CSS Express React Svelte Django Next.js Figma Docker Spring Boot
MACHINE LEARNING	Matplotlib NumPy Pandas Scikit-learn PyTorch
TOOLS AND TECHNOLOGIES	Design Patterns Git Microservices architecture Swagger API Postman MISP Markdown
DATABASES	MySQL PostgreSQL Oracle Prisma ORM
CONTENT MANAGEMENT	WordPress
GAME DEVELOPMENT	Pygame Unity

PUBLICATIONS

Prediction of protein-carbohydrate binding sites from protein primary sequence (*Under review*)

In this study, we propose StackCBEmbed, an ensemble machine learning model to effectively classify protein-carbohydrate binding interactions at the residue level. StackCBEmbed combines traditional sequence-based features along with features derived from a pre-trained transformer-based protein language model. *Link to the initial version of the manuscript:* [bioRxiv](#)

DeepBCTPred: Deep Learning-Based Prediction of Bladder Cancer Tissues from Endoscopic Images (*Under review*)

In this study, we designed a pipeline to generate new images and a novel genetic algorithm to effectively select images from them. Additionally, we combined handcrafted features with learned features.

Predicting Protein-Carbohydrate Binding Sites: A Deep Learning Approach Integrating Protein Language Model Embeddings and Structural Features (*Manuscript in preparation*)

In this study, we created a novel deep learning architecture that integrates various dataset imbalance approaches with structural features.

AWARDS AND HONORS

BUET RISE GRANT (GRANT RECEIVED)	<i>RISE Student Research Grant [No. S2024-01-004]</i>
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HONORABLE MENTIONS	<i>MicroProcessor and MicroController project</i>
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PROJECTS

ONCAMPUS

GITHUB LINK: [BACKEND FRONTEND](#)

Frontend: Framework: Next.js, Styling: Tailwind CSS, Component Library: Material Tailwind, Text Box: jodit-react, PDF Viewer: react-pdf, 360° Virtual Tour: react-photo-sphere-viewer, Language: TypeScript.

Backend: Framework: Node.js, Express, Architecture: Microservice Architecture, ORM: Prisma ORM, Security: Helmet, JWT, Authentication: Keycloak, NextAuth.js. Database: PostgreSQL hosted on Supabase, File Storage: Edgestore, Google Calendar Integration: Google Cloud API.

Deployment: MS Azure Virtual Machines, Supabase, Docker (for Keycloak), SSL Certificate from Namecheap, API Documentation with Postman.

MOOMARKET

GITHUB LINK: [BACKEND & FRONTEND](#)

Tech Stack: JavaScript (Node.js, Vanilla JS), Express, HTML, EJS, PostgreSQL, Git, GitHub, npm, Render.

ANIMATRIX

GITHUB LINK: [BACKEND & FRONTEND](#)

Tech Stack: JavaScript (Node.js, Vanilla JS), Express, HTML, EJS, Oracle DB, Git, GitHub, npm.

CERTIFICATES

PERFECT ATTENDANCE CERTIFICATE NOTRE DAME COLLEGE DHAKA	<i>Issued May 2020</i>
CERTIFICATE IN NATIONAL SKILL STANDARD BASIC COURSE EXAMINATION, 2015 BANGLADESH TECHNICAL EDUCATION BOARD	<i>Issued Sep 2015</i>

INTERESTS

- Watching movies
- Reading novels
- Listening to music