# 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**                                                                                    *2015-2017*
SSC — GPA: 5.00/5.00

**NOTRE DAME COLLEGE DHAKA**                                                                                              *2017-2019*
HSC — GPA: 5.00/5.00

**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY**                                                                   *2020-present*
B.Sc. IN COMPUTER SCIENCE AND ENGINEERING — CGPA: 3.96/4.00 (UP TO 7 TERMS)

## 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 |

## 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.

**PACMAN**
GITHUB LINK: GAME
C (Programming Language), C++, Object-Oriented Programming (OOP), igraphics

**UNBEATABLE PROTECTION: THE 5-WAY SECURITY VAULT**
GITHUB LINK: CODES, YOUTUBE LINK: VIDEO
Python (Programming Language), Arduino, EEE

**MISP AUTOMATION**
GITHUB LINK: CODES, YOUTUBE LINK: VIDEO
Python (Programming Language), JavaScript, MISP

**MOTIF SEARCH**
GITHUB LINK: CODES
Python (Programming Language)

## AWARDS AND HONORS

**BUET RISE GRANT (GRANT RECEIVE)**                                                    *RISE Student Research Grant [No. S2024-01-004]*
**HONORABLE MENTIONS**                                                                 *MicroProcessor and MicroController project*
**DEAN'S LIST AND UNIVERSITY MERIT LIST**                                              *Recipient of both Scholarships for academic excellence.*

## CERTIFICATES

**PERFECT ATTENDANCE CERTIFICATE**                                                                                        *Issued May 2020*
NOTRE DAME COLLEGE DHAKA

**CERTIFICATE IN NATIONAL SKILL STANDARD BASIC COURSE EXAMINATION, 2015**                                                 *Issued Sep 2015*
BANGLADESH TECHNICAL EDUCATION BOARD

## 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.