

NAHIAN CHOWDHURY

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I am a passionate problem solver with a strong foundation in algorithms and data structures, sharpened through competitive programming. I have a growing interest in MLOps and DevOps, focusing on automation, cloud infrastructure, and deployment pipelines. I am dedicated to learning new technologies, exploring advancements in machine learning, and contributing to innovative projects.

Education

Chittagong University of Engineering and Technology **Mar '22 – Present**
BSc in Computer Science & Engineering, CGPA: 3.93 (Upto 7th Semester) Chittagong, Bangladesh

Technical Skills

Programming Languages: C, C++, Python, JavaScript

Backend: Node.js, Express.js

Frontend: React, Tailwind, HTML, CSS, Bootstrap

Databases: MySQL, MongoDB

Machine Learning: Numpy, Pandas, Skikit-Learn, Tensorflow

Web Technologies and Tools: Web Scraping, Postman, Git

Projects

CodeJatra: A Competitive Programming Management System [Source Code](#)

- Developed CodeJatra, a **MERN** stack application for competitive programmers to participate in coding duels and climb a dynamic leaderboard.
- Implemented an authentication system using **JWT tokens** for user login.
- Integrated **external Codeforces API** for fetching user data and checking real-time duel status.
- Tools Used: **MongoDB, Express.js, React, Node.js, Tailwind CSS**

CCRMS: CUET Class Routine Management System [Source Code](#)

- Developed **CCRMS**, a web-based class routine management system to ease the process of creating and managing class schedules at CUET.
- Implemented **PDF generation** functionality with the **pdf-lib** library to dynamically create complex tabular schedules with merged cells and formatted text.
- Performed automated testing with **Playwright** to validate PDF generation and application workflows.
- Tools Used: **MongoDB, Express.js, React, Node.js, Tailwind CSS**

Algorithmic Competitions/Achievements

- Solved **1500+** problems at various online judges and participated in **100+** online and **10+** onsite contests.
- Rated **3*** on CodeChef with a maximum rating of **1601**.
- **Specialist** on Codeforces with a maximum rating of **1407**.
- **2nd Runner-up**, Premier University Programming Contest 2024 (Divisional)
Team: CUET_3_St00ges
- **7th Place**, Chittagong University Scientific Society Programming Contest 2024 (Divisional)
Team: CUET_3_St00ges