

Mitul Upadhyay

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EDUCATION

Graphic Era Hill University

B.Tech in Computer Science and Engineering

2025 – 2029

CGPA: 8.3 / 10

PROJECTS

ChronoGen – Automatic Timetable Generator

JavaScript, Node.js, Express.js, MySQL

GitHub

- Built an automatic timetable generation system using a **Genetic Algorithm implemented from scratch** in JavaScript to generate schedules under academic constraints.
- Implemented **7 hard and 8 soft constraints** using fitness evaluation, selection, crossover, mutation, elitism, and stagnation handling.
- Developed backend functionality using **Node.js, Express.js, and MySQL** for managing courses, rooms, instructors, and generated timetables.
- Implemented **Server-Sent Events (SSE)** to stream generation progress and added timetable export in CSV, JSON, and self-contained HTML formats.

CampusConnect – Campus Event Management Platform

HTML, Tailwind CSS, JavaScript

GitHub | Live Demo

- Designed and developed a responsive frontend for a **campus event and club discovery platform** using HTML, Tailwind CSS, and JavaScript.
- Built reusable responsive UI components including navigation, event cards, forms, search and filter controls, and dashboard layouts.
- Implemented client-side **search, filtering, sorting, navigation, and interactive UI states** using vanilla JavaScript.
- Deployed the frontend using **Vercel** and maintained development using Git and GitHub; backend development is planned as the next development phase.

ACHIEVEMENTS

- **Top 5 Finalist – Watch The Code 2026:** Selected among the top 5 teams at the hackathon organized by Graphic Era Hill University; developed ChronoGen with Team Tech4ALL.

TECHNICAL SKILLS

Programming Languages: C++, JavaScript, C, HTML5, CSS3

Development & Frameworks: Tailwind CSS, Node.js, Express.js

Databases: MySQL

Coursework & Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Fundamentals, Computer Programming

Platforms & Tools: Git, GitHub, VS Code, Vercel