



Aagam Bhavesh Mehta

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B.Tech - Mathematics and Computing

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.02 (Current)	2022-Present
Senior Secondary	Maharashtra HSC	91%	2022
Secondary	ICSE Board	96.6%	2020

PROJECTS

- **Campus Ambassador Portal** Jun, 2024
SPIRIT, The Annual Sports Fest of IIT Guwahati, SPIRIT, IITG Website
 - Developed the official campus ambassador portal for SPIRIT 2024, The Annual Sports Fest of IITG, using **ReactJS** for the frontend and **Node.js/Express.js** with a **MySQL** database for the backend.
 - Implemented robust user authentication with **Speakeasy** for **OTP generation** and verification during registration.
 - Utilized **Argon2** for **hashing** and integrated **Nodemailer** for email communication, enhancing security and UX.
 - Developed a user-friendly **admin dashboard** with **AdminJS**, significantly improving the admin experience.
- **Automated Assignment and Grading System** Mar, 2024
Group Project Github
 - Engineered a dynamic assignment portal using the **MERN** stack, featuring a responsive **ReactJS** frontend for user interface and a robust **Node.js/Express.js** backend with **MongoDB** as the database.
 - Implemented dual logins for students and instructors, enabling **assignment creation**, **test case definition**, a comprehensive **deadline management**, and integrated an online compiler for **automated grading**.
 - Utilized **Google Generative AI** for intelligent code feedback alongside detailed manual instructor reviews.
- **Airline Management System** Jun, 2024
Group Project, Coding Club IITG Github
 - Developed a robust web app using **React.js** for frontend and **Node.js/Express.js** for server-side handling.
 - Integrated the **Amadeus API** to fetch and display real-time flight schedules and booking capacities.
 - Utilized **MongoDB** for efficient and scalable data storage and management, implementing **CRUD operations** for user profiles, bookings, and flight data, and **bcrypt** for secure password hashing.
- **Sitcom Social** Jan, 2024
Self Project Github
 - Engineered a **real-time personal and group chat application** using HTML, CSS, JavaScript, and Node.js.
 - Used **Socket.io**, **WebSockets** for establishing **bidirectional communication** between online users in specific rooms.
 - Used **MongoDB** for storing chats, broadcasting and retrieving messages for new users.

TECHNICAL SKILLS

- **Programming:** C/C++, Java*, Python*
- **Web Technologies:** HTML, CSS, Javascript, ReactJS, NodeJS, ExpressJS, Socket.io*, BootStrap*
- **Database Management Systems:** MySQL, MongoDB
- **Operating system & Miscellaneous:** Windows, Linux*, Git* * Elementary proficiency

KEY COURSES TAKEN

- **Computer Science:** Data Structures and Algorithms (+LAB), Database Management Systems (+LAB), Digital Design, Computer Organization and Architecture
- **Mathematics:** Discrete Mathematics, Number Theory, Linear Algebra, Probability and Random processes, Real Analysis, Complex Analysis and PDEs

ACHIEVEMENTS

- **Competitive Programming**, Max Rating of **1689** on Codeforces (**Expert**) and of **1788** on Codechef (**3star**) 2024
 - Codeforces Round 954 (Div. 3) : Global Rank **202** among 16k+ participants
 - Codeforces Round 925 (Div. 3) : Global Rank **724** among 24k+ participants
 - Codeforces Round 950 (Div. 3) : Global Rank **921** among 16k+ participants
- **JEE Advanced 2022**, Secured **AIR 1424** among 0.20 million candidates appearing for the test. 2022
- **JEE Mains 2022**, Secured **AIR 2204** among 1.20 million candidates appearing for the test. 2022

EXTRACURRICULARS

- **Manthan 2023**, Secured **Gold Medal** in Mime Module (Inter Hostel Cult Competition) 2023
- **Kriti 2024**, GameJam (Game Dev PS), Secured **5th** rank out of 11 participating teams 2024
- **Dramatics**, Performed as an actor in the Street Play - "**Bech De**" organized by Xpressions 2023
- **Core Team Member**, Web Operations Spirit 2024, the Annual Sports Festival of IIT Guwahati 2023 - Present
- **Core Team Member**, Xpressions, the Drama society of IITG 2023 - Present
- **Matrix Mentor**, Mentoring MnC-first year students under the Mentor-Mentee program of MnC 2023 - Present