Manish Jangir

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B.Tech - Chemical Science and Technology
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.09 (Current)	2022-Present
Senior Secondary	RBSE Board	93.4%	2022
Secondary	RBSE Board	94.0%	2020

Projects

- **UR VDO — A Scalable Video Streaming Platform with Tiered Access** *Github link*
  A Full-stack video platform with adaptive streaming and subscription features
  – Built a full-featured video platform using **React.js** and **Node.js/Express** with **JWT-based auth**.
  – Integrated **Razorpay** for handling premium subscriptions with automated **PDF invoice emails**.
  – Used **MongoDB** and designed REST APIs for videos, likes, comments, and subscriptions.
  – Leveraged **ipapi** to choose **OTP delivery (SMS/email)** based on user **timezone and location**.
  – Implemented adaptive streaming with **FFmpeg** to support 480p/720p/1080p video quality switching.
- **CreatorConnect — A Direct Support Platform for Creators** *Github link*
  Crowdfunding-style platform enabling fan-to-creator payments
  – Built using **MERN stack** with **Next.js** for server-side rendering and performance optimization.
  – Implemented **NextAuth** for secure and seamless user authentication and authorization.
  – Integrated **Razorpay UPI** to facilitate direct and reliable fan-to-creator payments.
  – Designed for scalability and full **mobile/desktop responsiveness** to enhance user experience.
- **PathVisual — Real-time Pathfinding Visualizer** *Github link*
  Interactive tool for visualizing Dijkstra's algorithm on a dynamic grid
  – Built an **interactive visualizer** using **React** to demonstrate **Dijkstra's algorithm** in real-time.
  – Enabled users to **dynamically place** start/end nodes and obstacles on a grid via drag-and-drop.
  – Used **React state management** for real-time updates and **CSS animations** for visual feedback; UI styled with **Material-UI**.
- **WeatherNow — Real-time Weather Forecast App** *Github Link*
  Responsive weather dashboard using AccuWeather API
  – Built a **responsive** weather app with **Vite, React**, and **Tailwind CSS** for live city-based forecasts.
  – Integrated the **AccuWeather API** to display temperature, humidity, and conditions with **error handling** for invalid inputs and network issues.
  – Configured a backend **proxy server** to resolve **CORS** issues and used **Axios** for seamless data fetching.

Technical Skills

- **Programming**: C/C++, Python, JavaScript
- **Web Development**: HTML, CSS, Bootstrap, TailwindCSS, React, Node.js, Next.js, Express.js, Vite
- **Database Management and Queries**: SQL, Mongoose, MongoDB
- **Miscellaneous**: Git, Github, Fusion, Manufacturing

Key courses taken

- **Computer Science**: Introduction to Computing (Theory and Lab)
- **Web Development**: HTML, CSS, JavaScript, React.js, Node.js, MongoDB
- **Basic Course**: Basic Calculus, Theory of special relativity, Basic electronics
- **Blockchain and Web 3.0**: Blockchain & Web3.0: A Beginner's Guide

Position of Responsibility

- **WebOps Head**, CheSTA - Student Body of Chemistry Dept. (CST) *July 2025 - Present*
  – Managed and updated the website for all 4 B.Tech batches.
  – Posted events, notices, and coordinated updates with students and faculty.

Achievements and Extracurricular

– **Problem Solving:** Solved **800**+ coding problems across major platforms: **Codeforces** (Manish_Jangir — 330+ problems), **LeetCode** (ManishjangirIITG — 315+ problems), **GeeksforGeeks** (user_xhg4updvb8h — 140+ problems).
– **Organizer:** Successfully organized a national-level robotics event at **Techniche 2023** in collaboration with the **IITG Robotics Club**.
– **Member:** Actively contributed to the design and development in the **'Yuvan'** project as part of the **Robotics Club, IIT Guwahati**.