

BIKUND KUMAR

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EDUCATION

- **GL Bajaj Institute of Management, Greater Noida** 2023-2026
Bachelor of Computer Applications
- **RSBV School** 2022-2023
Class XII
- **RSBV School** 2020-2021
Class X

PERSONAL PROJECTS

• Park & Ride+

Arduino Mega 2560, React.js, Node.js, Express.js, Firebase, Google Maps API, SerialPort

- Built a full-stack IoT-enabled parking and transit system for real-time parking availability.
- Integrated Arduino Mega 2560 with IR sensors for live parking slot detection via serial communication.
- Developed an interactive map-based UI using Google Maps API to display parking and transit locations.
- Implemented Firebase authentication and community reporting with image uploads.
- Deployed using Vercel with serverless backend functions for scalability.

• Connect Now

Next.js, React, TypeScript, Socket.io, Node.js, Express.js, MongoDB Atlas, Cloudinary, Tailwind CSS

- Built a real-time chat application supporting instant messaging with typing indicators using WebSocket communication via Socket.io.
- Implemented multi-user chat rooms with persistent message history stored in MongoDB Atlas (7-day retention).
- Enabled file and image sharing with secure uploads using Cloudinary.
- Developed a responsive and modern UI using Tailwind CSS and Next.js.
- Deployed the client on Vercel and the server on Render for scalable production hosting.

• Realtime Weather Forecast

JavaScript (ES6), Express.js, Node.js, OpenWeatherMap API, HTML5, CSS3

- Developed a full-stack web application for live weather updates and 5-day forecasts using the OpenWeatherMap API.
- Built the backend with Node.js and Express.js for secure API integration and data serving.
- Designed a responsive, modern UI in vanilla JavaScript and CSS for desktop and mobile users.
- Implemented geolocation and instant search with error handling for enhanced user experience.

SKILLS

- **Languages:** HTML, JavaScript, CSS, C++
- **Frameworks:** Express.js
- **Runtime/Environment:** Node.js
- **Databases:** MongoDB, SQL, Firebase
- **Tools:** VSCode, Git/GitHub, Docker, AWS, Vercel, Linux

CERTIFICATIONS

- Operating Systems (Cisco)
- C++ DSA (Apna College)
- Linux Kernel Development (LFD103) (The Linux Foundation)