

Ashwani Selwal

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Education

National Institute of Technology Kurukshetra
B.Tech in Electronics and Communication 6.67/10

Nov 2021 - Present

DAV Centenary Public School, Jind
12th - CBSE 8.7/10

March 2020 - March 2021

Projects

Van Cam : A Handy Camera

[Code](#) [Demo](#)

React.js, Node.js, Google Photos API, Google Auth

- Developed a web app using React.js and Node.js for capturing and uploading images directly to Google Photos.
- Integrated **Google OAuth** for secure login and **Google Photos API** for album management.
- Automatically stores** captured images in the selected Google Photos Album, reducing manual upload time.
- Implemented a **queuing** system in Node.js for efficient multiple-image uploads.
- Used react-webcam for real-time image capture and added collaborative sharing via Google Photos API.

Health For You, For Us

[Code](#) [Demo](#)

React.js, Node.js, MongoDB, ZegoCloud API

- Created a platform to connect patients with mental health professionals, offering services like mental health assessments, personalized reports, and real-time doctor consultations.
- Built using JavaScript, React.js, Node.js, Express.js, and MongoDB with **role-based authorization**, managing separate sessions for doctors and users.
- Integrated **ZegoCloud API** for video calling and in-call chat functionality, allowing seamless communication during consultations.

Technical Club's Website

[Demo](#)

React.js, Three.js, Tailwind CSS, Node.js, Express.js, MongoDB, Cloudinary

- Developed a **React Vite** application to showcase robotics and embedded systems projects, events, and activities.
- Implemented a full-stack **authentication** system, allowing students to **register**, **log in**, and participate in club events.
- Designed an **admin dashboard** for event management, participant supervision, and real-time data updates.
- Improved club data management **efficiency by 90%** through better content organization and documentation.
- Developed a dynamic gallery feature using **Cloudinary** API for seamless media uploads and display.
- Built an **event management system**, enabling admins to create and manage future events effortlessly.

Skills

Programming Languages: C++, JavaScript

Web Development: React.js, Redux Toolkit, Node.js, Express.js, REST APIs,

State Management: Redux Toolkit, React Context API

UI & Styling: Tailwind CSS, Material UI, Styled Components

Database: SQL, MongoDB

Cloud & Version Control: Render, Vercel, Netlify, GitHub, Git

Cloud & Media Services: Firebase, Google Cloud Platform (GCP), Cloudinary

CS Fundamentals: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Problem-Solving

Soft Skills: Team Work, Management, Leadership

Volunteer and Achievements

- Led a team of 5 members and became a **College Finalist** for the National-level **SIH Hackathon**.
- Secretary** of the Technical Club - Embedded Systems & Robotics Club, NIT Kurukshetra.
- Solved **700+** DSA problems across LeetCode, GeeksforGeeks, and Coding Ninjas.
- Led a hands-on **Embedded Systems workshop**, teaching students to design and build robots from scratch.
- Organized a 3-day **IoT workshop** on home automation for **120+ students**, teaching concepts and projects developed over 4-5 months.