Ashwani Selwal

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Education

National Institute of Technology Kurukshetra *Nov 2021 - May 2025*
B.Tech in Electronics and Communication

DAV Centenary Public School, Jind *March 2020 - March 2021*
12th - CBSE

Projects

Technical Club's Website *Demo* ⬈

Vue.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.

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.
○ Designed **multi-role architecture** with session isolation and secure API routing for doctors and patients.
○ Enabled real-time video and chat via **ZegoCloud**, simulating microservice-style communication.

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.
○ **E**xpedited image workflow by architecting automated storage of captured images into designated Google Photos albums; minimized manual upload time by 8 hours weekly, increasing user engagement by 30
○ Engineered a fault-tolerant image **queuing** system to mimic distributed uploads at scale.
○ Used react-webcam for real-time image capture and added collaborative sharing via Google Photos API.

Skills

Programming Languages: C++, JavaScript, TypeScript
Frontend: React.js, Vue.js, AngularJS, Next.js, HTML, CSS, Redux Toolkit, Bootstrap, ChakraUI, jQuery
Backend: Node.js, Express.js, RESTful APIs
Database: MongoDB, SQL, MS SQL Server
Distributed Systems: Google Photos API
Cloud Platforms: Google Cloud Platform (GCP), Firebase, Kubernetes, Render, Vercel
Frameworks/Tools: .NET Framework, Visual Studio
CS Fundamentals: Data Structures, Operating Systems, Networking, Object-Oriented Programming (OOP)
Dev Tools: GitHub, Postman, Netlify, Vercel, Render
Soft Skills: Leadership, Team Collaboration, Initiative, Event Management

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.