

Ashish Singh

Fullstack/Design Engineer

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Education

GL Bajaj Institute of Technology and Management, BTech in Information
technology

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Skills

Languages: Typescript, Java, Golang, Python

Web Development: HTML5, CSS, Node.js, Express, React, React native, Expo, Next.js, SpringBoot, FastAPI, Flask, Gin, PostgreSQL(Prisma), MongoDB(Mongoose), Redis, Supabase, Firebase, REST API's, GraphQL

DevOps tools: Bash, Github Actions, AWS EC2, Prismic CSM, CI/CD, Docker, Kubernetes, Jenkins Grafana, Prometheus, PostmapAPI, nginx, Kafka

Design: Figma, Spline, TailwindCSS, Material-UI, shadCN, UI/UX, GSAP, Framer, Three.js, Canva, Krita

Projects

Nerv | AI Mock Interview Platform

[Github Repo](#) | [Deployed Link](#)

(Hackathon Winner @ Hack O'Clock 2025, IILM University)

- Developed an AI-powered mock interview system offering real-time Q&A for roles like Web Dev, DSA, and OOPs, dynamically adapting to user input.
- Implemented multimodal interaction: users speak or type answers, while a webcam captures facial expressions via OpenCV and emotion recognition models.
- **Tech Used:** React.js, Typescript, Node.js, MongoDB, OpenAI APIs (GPT-4, Whisper, TTS), Microsoft Azure, Express.js, OpenCV

Sylvan | Emotion-Aware Smart Farming

[Webapp Repo](#) | [Mobile App Repo](#) | [Deployed Link](#)

- Built an AI-powered mobile app for smart farming that monitors plant health using IoT sensors (light, moisture, temperature), providing real-time data and actionable insights.
- Translated sensor data into "emotional" states for plants, shared through a unique Twitter(X) account for each plant, tweeting stats and fun tweets.
- **Tech Used:** React Native, TypeScript, Expo, Firebase (Auth), Google Maps API, ESP32, Arduino IDE, Wokwi, MongoDB, X(twitter) API

Aegis | Agentic AI Legal Compliance

[Github Repo](#) | [Deployed Link](#)

(@ BNB AI on Chain, IIT Delhi)

- Built an AI-powered legal assistant for startups with features like intelligent document drafting, personalized guidance, and compliance checklists.
- Developed a secure dashboard for managing legal docs, tracking compliance, and monitoring overall legal health.
- **Tech Used:** React.js, TypeScript, Node.js, Flask, Supabase, Tailwind CSS, Framer Motion, ngrok, Agentic RAG, LangChain, vectorDB, OpenAI API

Awards & Extracurriculars

- **Winner, Hack'O'Clock 2024:** Secured **1st place** among 160 teams in a 24-hour national hackathon. Our project was highly appraised by judges from **Salesforce and Microsoft**. *(Event Video, from 4:50)*
- **Programming:** Solved **200+ problems** on Data Structures and Algorithms across various platforms. [GeeksForGeeks](#) | [LeetCode](#)
- **Hackathon Enthusiast:** Actively participated in **6+ hackathons**, gaining extensive experience in rapid prototyping, teamwork, and high-pressure development environments.
- **Current Project (NIDAR Hackathon):** Developing a novel two-drone coordinated system for the upcoming national-level **NIDAR Drone Hackathon**.