

AMIT YADAV

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Experience

Software Development Engineer - 1 | [Link](#) **Galaxy.ai** New Delhi Jan 2026 – April 2026

- Architected a scalable **async AI job pipeline** processing **30,000+ requests/day** with **schema-driven validation (Zod)** and webhook-based orchestration, improving processing **latency by 20%**
- Architected a **visual AI workflow builder** for composing and executing **multi-model generative pipelines** via drag-and-drop canvas, **REST API, or MCP server** — with node-level tracking, conditional branching, and real-time status propagation.
- **Built a centralized error handling system and refactored backend architecture**, reducing response latency and standardizing observability across all service pipelines.
- Orchestrated **multi-agent workflows** for end-to-end content generation, coordinating agents across script generation, scene decomposition, image synthesis, video rendering, and post-processing, replacing manual workflows with a **single-prompt automated pipeline**.

Teaching Assistant (DSA & CP Instructor) | [Link](#) **KLH University** Hyderabad June 2025 – Jan 2026

- Mentoring 2nd, 3rd, and 4th year students in **Data Structures & Algorithms, Competitive Programming**, and advanced problem-solving with a focus on **Codeforces** and **CodeChef** preparation.
- Designed and curated original problem sets inspired by real competitive programming standards and hosted weekly coding contests.
- Taught **Object-Oriented Programming (OOPs)** and **Computer Networks**, delivering strong conceptual foundations through practical, problem-based learning.

Education

B.sc (CSE)
B.Tech (ECE [Minor]) Drop

GU, Greater Noida, India
NIT Surat, India

July 2022 - June 2025
Nov 2020 – June 2022

Skills

- React.js | Node.js | Express.js | TanStack Query | REST | MongoDB | MySQL | Firebase | Redis | AWS Lambda | Cloudflare R2
- C/C++ | JavaScript | TypeScript | Java | Python | HTML | CSS | Git | GitHub | Redis | WebRTC | Socket.io | Mongoose | Zustand | Zod
- OOPs | DBMS | OS | Data Structures and Algorithms | Computer Networks | Frontend | Backend

Projects

AI WebFlow Builder | [Github](#) | [Link](#)

Tech Stack: Next.js, React Flow, Zustand, TypeScript, Node.js, MongoDB, Tailwind CSS

- Built **visual AI workflow builder** using React Flow and Zustand, create and manage AI pipelines through a drag-and-drop node editor.
- Implemented **undo/redo with snapshot-based state management**, & workflow import/export and persistent storage using MongoDB.

Intervu (Interview Platform) | [Github](#) | [Link](#)

Tech Stack: Next.js , React , Tailwind CSS , Convex (Backend) , Clerk(Auth)

- Developed **Intervu**, an end-to-end technical interview platform with **real-time video calls (WebRTC)**, **collaborative live code editor**, screen sharing, and **session recording** to streamline technical hiring.
- Implemented **secure authentication** and **role-based access** using Clerk, and integrated **Convex backend** for real-time data sync, scheduling, feedback, and interview management.

Contest Notifier | [Github](#) | [Link](#)

Tech Stack: Node.js, Express.js, React.js, Axios, MongoDB, Mongoose, REST APIs, HTML, CSS, JavaScript

- Built **Contest Notifier**, a full-stack web application that aggregates upcoming programming contests from platforms like **Codeforces**, **LeetCode**, **CodeChef**, and **AtCoder** using external APIs, displaying all events in one dashboard.
- **Contest Notifier** app uses **Node.js/Express** backend for real-time contest aggregation and MongoDB-based solution storage, and a **React.js responsive UI** for viewing upcoming/past contests and submitting solutions.

Achievements

- CP Profiles: [Codeforces](#) [Expert] (1750 max), [CodeChef](#) [5★] (2090 max), [LeetCode](#) [Guardian] (2277 max, Top 0.5%), [HackerEarth](#) [Explorer] (1808 max), [AtCoder](#) [Cyan] (1394 max) — solving 3000+ **DSA problems** across platforms.
- **Qualified Meta Hacker Cup up to Round 2**, securing **Rank 2411 (Round 2)**, **Rank 3623 (Round 1)** and **Rank 3669 (Practice Round)** among global participants. | [Link](#)
- Achieved **Rank 277 out of 50,000+** in **Codeforces Div 3 Round #1013**, **Global Rank 19** in **CodeChef Starters 186 (Div 1)**. | [Link](#)
- Completed **DSA Essentials in C++**, **DSA Basic & Intermediate Specialization**, and **Full Web Development Bootcamp Certification**. | [Link](#)
- Solved the **entire TLE Eliminators CP 31 problem sheet**, consistently ranking among the **top performers** while solving problems. | [Link](#)
- Achieved **1700+ Codeforces rating**, solving **50 %** of the problems (**1200+ rating**) with **Top 5 ranking** in institute. | [Link](#)