

# AMIT KUMAR SAH

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 GitHub

 Portfolio

## EDUCATION

### Chitkara University, Rajpura

2022 – Present

B.E - Computer Science and Engineering (*CGPA: 7.0/10.0*)

- **Coursework:** Data Structures, Database Management System, Computer Networks, Object Oriented Programming, Operating Systems

## TECHNICAL SKILLS

- **Programming Languages:** C++, Java, JavaScript, SQL
- **Web Technologies:** HTML, CSS, Tailwind CSS, React.js, Node.js, Express.js
- **Databases:** MongoDB, MySQL
- **Version Control & Collaboration:** Git, GitHub
- **API & Tools:** REST APIs, Postman, JSON, Gemini API

## PROJECTS

### Intracto AI – Intelligent Communication & Skill Guidance Platform

[GitHub](#) — [Live](#)

- Built an **AI-powered MERN application** that generates personalized skill roadmaps based on user goals using Gemini AI.
- Implemented secure authentication using **JWT**, **bcrypt**, and role-based access control to protect user data.
- Designed an interactive React.js frontend with dynamic AI responses and **skill tracking features**.
- Configured MongoDB to store user profiles, AI recommendations, and roadmap progress efficiently.
- Built an analytics dashboard using **Chart.js** to track learning progress and AI suggestion effectiveness.
- Deployed on Vercel (frontend) and Render (backend) for high availability and scalability.

### News App (Full-Stack MERN)

[GitHub](#) — [Live](#)

- Developed a full-stack **MERN application** that delivers real-time news updates with category-based browsing.
- Integrated external news APIs using **RESTful endpoints**, handling loading states, pagination, and error fallback.
- Built a **responsive React.js frontend** with reusable components and intuitive navigation for mobile and desktop.
- Implemented backend services using **Node.js** and **Express.js** to manage API requests and data flow.
- Configured **MongoDB** for persisting user preferences and optimizing queries for fast data retrieval.
- Deployed on **Vercel**, leveraging serverless architecture for scalability and low-latency performance.

### Sorting Visualizer

[GitHub](#) — [Live](#)

- Developed an interactive web-based sorting visualizer using **React.js** to demonstrate algorithms like Bubble Sort, Merge Sort, QuickSort, and Insertion Sort.
- Implemented dynamic animation and time-complexity analysis to enhance conceptual understanding of sorting techniques.
- Designed responsive and user-friendly UI for seamless learning experience across devices.
- Deployed using **Netlify**, providing public accessibility and smooth performance.

## Highlights

- Problem solver on **LeetCode** for improving algorithmic and problem-solving skills.
- Built and deployed full-stack MERN projects demonstrating practical web development skills.
- Active **GitHub** contributor with clean, modular, and version-controlled codebases.
- Participated in university coding and development activities, enhancing teamwork and collaboration.
- Completed VSPW (Vital Skills for Professional World) training, enhancing professional and soft skills.