

# Gagan Deep Yadav

Software Development Engineer — Full-Stack (MERN)

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## PROFESSIONAL SUMMARY

Aspiring Software Development Engineer with hands-on experience in MERN stack development and strong foundations in data structures, algorithms, and system design. Proven ability to design scalable RESTful APIs, real-time applications, and CI/CD-enabled deployments using Docker and Kubernetes. Adept at translating requirements into clean, maintainable, production-ready code.

## SKILLS

**Languages:** JavaScript (ES6+), C++, SQL

**Frontend:** React.js, Redux, Tailwind CSS, SPA architecture, WebSocket-based communication

**Backend:** Node.js, Express.js, MongoDB, RESTful APIs, Microservices design

**DevOps & Tools:** Docker, Kubernetes, Jenkins, GitHub Actions, Git, Postman

**CS Fundamentals:** Data Structures & Algorithms, OOP, OS, DBMS, Computer Networks, System Design

## WORK EXPERIENCE

### CodeTechnologies — Web Developer Intern

Aug 2025 – Nov 2025

- Developed a scalable MERN-based streaming platform supporting dynamic content delivery and responsive UI.
- Designed and implemented RESTful APIs enabling real-time updates, reducing average response time by 35%.
- Optimized frontend performance by refactoring React components into reusable, modular architecture.
- Collaborated in a remote Agile environment using Git-based workflows and structured code reviews.

### DCAT — Full-Stack Developer (MERN) — Training

Jul 2025 – Aug 2025

- Built end-to-end web applications with authentication, role-based access, and CRUD functionality.
- Developed responsive user interfaces using React and Tailwind CSS with cross-browser compatibility.
- Tested and validated APIs using Postman and followed version control best practices with Git.

## PROJECTS

### ECHO

Frontend Backend

*React, Node.js, MongoDB, Socket.io, WebRTC, JWT*

- Designed and built a real-time messaging platform supporting private chats, group messaging, and media calls.
- Implemented WebRTC for peer-to-peer audio/video streaming and Socket.io for low-latency event handling.
- Secured the application using JWT-based authentication and protected API routes.

### KUBESCALE

Repository

*Docker, Kubernetes, GitHub Actions*

- Developed an automated deployment platform to containerize and orchestrate MERN applications.
- Designed CI/CD pipelines enabling consistent builds, testing, and environment-based deployments.

## CERTIFICATIONS

- Full Stack Developer — DCAT
- Generative AI — Simplilearn
- Data Analytics Job Simulation — Deloitte

## ACHIEVEMENTS

- Participated in multiple hackathons, delivering functional full-stack prototypes within strict deadlines.
- Recognized for strong problem-solving skills, rapid learning ability, and clean architectural thinking.

## EDUCATION

### Babu Banarsi Das Institute of Technology and Management, Lucknow

B.Tech in Computer Science and Engineering

May 2026

Sacred Heart School, Lucknow

Class XII (CBSE) — 78%