

JAY AGGARWAL

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Education

The LNM Institute of Information Technology

Aug 2022 – Apr 2026

Bachelor of Technology in Computer Science and Engineering

Jaipur, India

- Relevant Coursework: Data Structures and Algorithms, Database Systems, Software Engineering, Operating System.

Professional Experience

Full Stack Developer (Freelance)

May 2025 – Present

TRIX Technology

Remote

- Designed and launched a scalable Exam Portal supporting 1,000+ concurrent users with real-time dashboards, improving operational efficiency by 30%.
- Developed and maintained 25+ RESTful APIs using Node.js, Express.js, and MongoDB; optimized database queries to enhance response times by 40%.
- Implemented JWT-based authentication, role-based access control, and secure data validation, reducing security vulnerabilities by 25%.
- Collaborated in a four-member Agile team using Git workflows, improving deployment frequency and reducing integration issues.

Projects

Kayak Travel Reservation System

May 2025 – Present

React.js, Node.js, Express.js, Kafka, Redis, MySQL, MongoDB, GCP, AWS

Team Size: 2

- Developed a travel booking platform for flights, hotels, and rentals, achieving 99% uptime and reducing search latency by 30% via Redis caching and Kafka-based event-driven processing.
- Created 15+ reusable React components with TailwindCSS for responsive design, increasing frontend development speed by 20%.
- Integrated payment gateways, email notifications, and user dashboards for smooth booking and account management.

Plagiarism Checker Web Application

Jan 2024 – Apr 2024

React.js, Node.js, Express.js, Google Cloud Storage, OpenAI API

- Built a plagiarism detection tool using cosine similarity and OpenAI embeddings, achieving 90% detection accuracy with OCR-based text extraction.
- Implemented side-by-side comparison with highlighted matches, reducing file review time to 5 seconds per document.
- Source Code: github.com/jay9358/plagiarism_checker

Skills

Programming Languages: JavaScript, C++, Java, SQL

Frontend: React.js, HTML, CSS, TailwindCSS, Bootstrap

Backend: Node.js, Express.js, RESTful APIs, MongoDB, MySQL, Redis, Kafka

Tools & DevOps: Docker, Git, CI/CD, Jira, Firebase, GCP

Leadership and Activities

Technical Lead

E-Summit, LNMIIT

Sep 2024 – Feb 2025

Jaipur, Rajasthan

- Led a 10-member technical team for event automation; implemented GitHub-based workflows and cloud deployment strategies, reducing errors by 15% and enabling seamless execution for 1,000+ participants.
- Led and mentored junior developers, promoting collaboration, continuous learning, and efficient delivery of high-quality software solutions

Certifications

Full Stack Web Development Certification

React, Node.js, MongoDB

Coursera / 2025