







Jadeja Krishnapal Singh

FULL STACK DEVELOPER

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Summary

Aspiring Software Developer with hands-on experience in MERN & PERN stacks, C++, and Java. Intrigued with web development and AI, and with experience in developing scalable full-stack applications. Examples of completed work include an ecommerce website and a dynamic user-based quiz generator web application. Currently engaged with a live project at university about the assessment of SGPs, internship reports, and exams. Proficient in creating effective, sustainable code and providing effective solutions.

Education

Charusat University	March 2023 - 2027
B.Tech-Computer Engineering	9.06 CGPA

Projects

Live Reporting System

Tech Stack : PostgreSQL, Express.js, React.js, Node.js

University Evaluation Web Application for managing SGPs, internship reports, and exam results. Enables students to track submissions and receive faculty feedback, streamlining the academic evaluation process.

- Robust API and Model Design: Built efficient APIs and schemas to manage student submissions and company details.
- Excel Sheet Integration: Built an API to import and migrate Company as well as Students data from Excel files into the database, enabling bulk onboarding of external partners.
- Certificate Generation: Developed an automated system to generate NOC (No Objection Certificate) letters for students using real-time data from the company database.
- Project Allocation Module: Developed a comprehensive backend module enabling team-wise student selection, dynamic project ID generation, and guide allocation. Integrated smart filters and ID suggestions to streamline the entire allocation workflow.
- Approval Workflow API: Developed APIs for students to submit company/project approval requests. Data is inserted into the main database only upon faculty/admin approval and if rejected, the reviewer adds a rejection comment and the request is discarded.
- Optimized Excel Endpoint: Enhanced data import performance with bulk insertion and batching strategies, drastically reducing database load and improving response times.

QuiziFY

[Link](#)

Tech Stack: MongoDB, Express.js, Node.js, EJS, TailwindCSS

Secure Quiz Web Application with JWT authentication, role-based access, real-time timers, and automated scoring.

- Database Design: Architected MongoDB schemas for user profiles, quiz content, and comprehensive results tracking.
- Quiz Management: Developed an Admin panel to create, update, delete, and manage quizzes, including control over quiz materials, timing, and format.
- AI-Powered Quiz Generation: Integrated Gemini API to dynamically generate quiz questions based on provided topics, enhancing scalability and content variety.
- Real-time Timer and Scoring: Implemented session-based timers for precise time tracking, with automated scoring and persistent results storage.
- Quiz Results API: Built an API to show users their scores and correct answers immediately after quiz submission.

Skills

Database: MongoDB, PostgreSQL, MySQL

Backend: Node.js, Express.js, Prisma, Sequelize, REST APIs, Socket.IO

Frontend: React.js, Javascript, Typescript, EJS, HTML, CSS, TailwindCSS

Languages & Core: C, C++, Java, Python, Data structure and Algorithms

DevOps & Tools: Git, Github, Postman, Docker

Certifications/Participations

- NPTEL – Data Structures & Algorithms Certification([Certificate](#))
- Smart India Hackathon Participation
- Nirma University Hackathon Participation([Certificate](#))