

GURDHIAN SINGH

Full Stack Software Engineer

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Summary

Full Stack Software Engineer with hands-on experience building and deploying scalable web applications, including live platforms for exams and study management. Strong in React.js, Node.js, backend architecture, and database design. Passionate about problem-solving, clean system design, and performance optimization.

Skills

Languages: JavaScript, TypeScript, Python (Basic)

Frontend: React.js, Next.js, Tailwind CSS, HTML, CSS, Redux, Zustand

Backend: Node.js, Express.js, REST APIs, MongoDB, PostgreSQL, SQLite

AI & ML Concepts: Basics of Artificial Intelligence, RAG-based Systems (Retrieval-Augmented Generation)

Tools & Systems: Git, GitHub, Docker, Redis, Passport.js, Zod, Ngrok

Core Concepts: Data Structures, Algorithms, Problem Solving

Projects

ByteExam | *Next.js, TypeScript, Tailwind CSS, Zustand, Node.js, Express.js, MongoDB, Redis* **2025**

- Live: <https://byte-exam-frontend.vercel.app/> — Full-stack online exam platform with dynamic question builder and test case validation.
- Designed secure candidate registration flow with backend verification and confirmation-based enrollment.
- Implemented Redis caching for exam-author mappings, significantly reducing database calls and improving API performance.
- Focused on clean architecture, modular backend design, and scalable workflows.

Cevent | *React.js, SQLite, Ngrok* **2025**

- Live: <https://cevent-frontend.vercel.app/> — Web platform for managing a college coding competition, emphasizing real-time access and UI experience.
- Implemented participant registration, problem rendering, and submission workflows using React.js and SQLite.
- Securely exposed a locally hosted backend using Ngrok for remote access during the event.
- Successfully conducted the competition with participation from 50+ students.

StudyNotion | *React.js, Node.js, Express.js, MongoDB, Redux, Tailwind CSS* **2024**

- Live: <https://studynotion-frontend-sigma.vercel.app/> — Full-stack ed-tech platform for course browsing, purchase, and content consumption.
- Implemented secure authentication using JWT, OTP verification, and password reset mechanisms.
- Integrated Razorpay for payment processing and Cloudinary for media storage.
- Deployed the platform using Vercel, Render, and MongoDB Atlas.

Training

Web Development & Office Tools Training **July 2023**

Maharaja Ranjit Singh Punjab Technical University, Bathinda

- Built strong fundamentals in HTML, CSS, and JavaScript through hands-on web development.
- Gained practical experience using MS Office tools for technical documentation and reporting.

Education

B.Tech in Computer Science

Expected Graduation: 2026

Giani Zail Singh Campus College of Engineering and Technology

CGPA: 7.57