

Karan

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SKILLS

Languages & Frameworks: HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Node.js, Express.js

Databases & ORMs: MongoDB, PostgreSQL, Redis, Drizzle ORM, Mongoose

Tools & Technologies: REST API, tRPC, Git, GitHub, CI/CD, JWT, Cloudinary, Razorpay, OpenAI API, Zustand, Zod

WORK EXPERIENCE

Hartron Skill Center, Pehowa

Coding Instructor Jan 2025 - Present

- Taught programming fundamentals to 100+ students covering C, C++, and web development basics, improving student proficiency in core computer science concepts.
- Designed structured lesson plans and hands-on coding exercises tailored to beginners, enabling students to build foundational programming skills from scratch.
- Conducted regular assessments and doubt-clearing sessions to track student progress and ensure concept retention across batch cycles.

PROJECTS

Abhyas - AI-Powered Mock Exam Platform



Next.js, React.js, TypeScript, Node.js, Express.js, PostgreSQL, Drizzle ORM, OpenAI API

- Architected and developed a full-stack assessment platform from scratch, successfully onboarding and actively serving 20+ real users.
- Integrated the OpenAI API to build an intelligent evaluation engine capable of automatically grading subjective and coding answers, handling partial marking, and interpreting image-based questions.
- Engineered a secure multi-tenant authorization system using JWT and Bcrypt with dedicated protected portals for Superadmins, Admins, Teachers, and Students.
- Developed an optimized batch-processing pipeline in Node.js/Express to handle concurrent AI grading requests, ensuring fast and reliable feedback for bulk student submissions.
- Built a highly responsive frontend with Next.js, Tailwind CSS, Shadcn UI, and Framer Motion; implemented Zustand for state management and Zod for strict client-side data validation.

Ginnie AI - AI Workflow Automation SaaS



Next.js, Node.js, OpenAI, Corsair SDK, PostgreSQL, Razorpay

- Built a unified AI workspace acting as an autonomous assistant, leveraging the Corsair SDK to fetch, categorize, and draft responses to emails and schedule meetings natively.
- Developed an AI tool-calling pipeline using OpenAI and Corsair's agentic tools to securely execute cross-platform tasks from a single chat interface, eliminating context-switching friction.
- Created comprehensive interactive API documentation using Scalar OpenAPI, improving maintainability and developer onboarding for the platform's backend services.
- Configured robust server-side security via middleware-protected routes and handled payment verifications securely through Razorpay webhooks.

Alhkar - Full-Stack E-Commerce Platform



React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Zustand, Razorpay, Cloudinary, Resend

- Architected and deployed a full-stack e-commerce application with a React.js frontend and Node.js/Express backend, ensuring a responsive user experience and scalable API design.
- Integrated Razorpay to process secure checkout transactions, implementing server-side cryptographic signature verification to prevent fraudulent orders.
- Built robust JWT/bcrypt authentication, Cloudinary-based image storage, and automated transactional emails via the Resend API.
- Developed comprehensive backend modules to manage carts, orders, user reviews, and shipment tracking.

EDUCATION

SKIET College, Kurukshetra

B.Tech in Computer Science and Engineering Aug 2023 - Jun 2027