Dipan Roy Choudhury

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Summary

Full-Stack Developer building web applications with React, Next.js, Node.js, and Express, with experience in REST APIs, MongoDB, and MySQL. Developing GenAI applications while strengthening backend system design, software architecture, and problem-solving skills through DSA practice, with a focus on efficient, maintainable solutions.

Experience

Full Stack Development Intern Sep 2026 – Oct 2026
InAmigos Foundation *Chhattisgarh, India*

- Evaluated website usability and information architecture, documenting actionable improvements to layout, content hierarchy, navigation, and user experience through annotated screenshots.
- Developed an AI-assisted, multi-section website covering Home, About, and Services, organizing page structure and content to establish a cohesive digital experience.
- Designed five NGO website feature concepts in Figma, covering donations, volunteer registration, impact metrics, testimonials, and campaigns, translating organizational needs into actionable UI/UX proposals.

Full Stack Developer 2025 – Present
Freelance *Kolkata, India*

- Deliver full-stack web applications end to end, from API design through production deployment.
- Design scalable backend systems and REST APIs with Node.js, Express, and PostgreSQL.
- Build polished, accessible frontends with React, Next.js, Tailwind CSS, and shadcn/ui.
- Ship reliable features quickly with clean architecture and maintainable code.

Projects

AI Interview Agent | Live Website | GitHub Dec 2025
Tech Stack: React.js, Tailwind CSS, Redux, Node.js, Express.js, MongoDB, Firebase, JWT, Razorpay, Multer, jsPDF, Render

- Developed an AI-powered mock interview platform that analyzes spoken responses and generates personalized feedback on answer quality, relevance, confidence, and overall performance.
- Implemented resume-based question generation for tailored, round-specific interviews and a performance dashboard with interview history and downloadable PDF reports using jsPDF.
- Integrated Firebase Google OAuth, JWT-based authentication, and protected REST APIs; implemented Razorpay-powered credit purchases and interview attempt tracking.

Website Builder | Live Website | GitHub Mar 2026
Tech Stack: React.js, Tailwind CSS, Framer Motion, Redux Toolkit, Node.js, Express.js, MongoDB, Firebase Auth, JWT, OpenRouter API, Stripe, Render

- Developed a website builder integrating the OpenRouter API to transform natural-language prompts into website code through conversational input.
- Implemented credit-based usage and payments with Stripe Checkout and webhooks, Firebase Google OAuth, JWT authentication, and protected REST API endpoints.
- Built a website management workflow with MongoDB models for users and generated sites, supporting website storage, credit tracking, and one-click deployment to live URLs.

Exam Notes Generator | Live Website | GitHub Sep 2026
Tech Stack: React.js, Redux, Framer Motion, Node.js, Express.js, MongoDB, Google Gemini API, Firebase Auth, JWT, Stripe, Render

- Developed a study platform using the Google Gemini API to turn user-provided topics into structured exam notes, revision summaries, and visual learning materials.
- Implemented Firebase Google OAuth, JWT-protected REST APIs, and MongoDB persistence for generated notes, user history, and credit tracking.
- Built a credit-based payment workflow with Stripe Checkout, plus APIs for note generation, personalized history, and downloadable PDF study materials.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL
Frontend: React.js, Next.js, Tailwind CSS, shadcn/ui, Redux Toolkit, Framer Motion
Backend & APIs: Node.js, Express.js, RESTful APIs, JWT, Firebase
Databases & ORMs/ODMs: PostgreSQL, MongoDB, Redis, Prisma, Drizzle ORM, Mongoose
Developer Tools & Deployment: Git, GitHub, Postman, Docker, Vercel, Render
Core CS: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

Education

Netaji Subhash Engineering College Oct 2022 – Jun 2026
B.Tech. in Information Technology | CGPA: 8.08

Jermel's Academy 2022
CBSE, Class XII | Percentage: 71.5%

Jermel's Academy 2020
CBSE, Class X | Percentage: 92%