Dipanwita Bala | Full-Stack Developer

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Full-stack developer experienced in building production-grade web applications using Next.js, React, TypeScript, Node.js, Express, and MongoDB, with strengths in REST API design, authentication (JWT, NextAuth), pixel-accurate UI from Figma, and AI features such as RAG.

Experience

Full-Stack Developer Intern - SiteSathi, Amrvati, Maharastra   **Oct 2025 - Dec 2025**

• Built a production-grade internal operations dashboard end-to-end (frontend and backend) using React, TypeScript, Tailwind CSS, Node.js, Express, and MongoDB, enabling company teams to manage customers, feature access, and platform workflows.

• Contributed to a multi-tenant customer-facing dashboard by implementing role-based access control, feature access scoping, tenant-level data isolation, backend APIs (including attendance management), while also handling bug fixes, testing, GitHub maintenance, deployments, and collaborating closely with the team.

Personal Projects

Memoir — Personal Knowledge Management Web App | GitHub | Live   **Jan 2026 – Present**

Next.js, React, Typescript, NextAuth, MongoDB, Cloudinary, Tailwind CSS, Vercel

• Built a full-stack personal knowledge management web app to save, organize, and browse links, videos, tweets, PDFs, and images using a clean, category-based structure.

• Implemented secure authentication with NextAuth using email/password and OAuth providers (Google, GitHub), backed by JWT-based session handling.

• Designed scalable backend APIs with Next.js Route Handlers and MongoDB, ensuring strict user-level data isolation and content ownership.

• Integrated Cloudinary for file uploads and previews, enabling efficient handling of documents and media.

Formula 1 AI Chatbot (RAG-based)| GitHub | Live   **Dec 2025**

Next.js , React, Typescript, Pinecone, Google Gemini API, LangChain, Vercel

• Built an AI-powered Formula 1 chatbot using a Retrieval-Augmented Generation (RAG) pipeline.

• Scraped data from trusted F1 sources using Puppeteer and LangChain, processing it with RecursiveCharacterTextSplitter.

• Used Pinecone for vector storage and retrieval and integrated Google Gemini Flash 2.5 with context-aware prompting to generate responses.

Tech Stack

Languages: Java, JavaScript (ES6+), TypeScript
Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3
Backend: Node.js, Express.js, REST APIs, JWT, NextAuth
Databases: MongoDB, MySQL, PostgreSQL, Pinecone
Tools & AI: React Query, Axios, LangChain, RAG, Git, Postman, Mongoose, Vercel

Education

B.Tech in Electronics and Communication Engineering with Artificial Intelligence   **Aug 2021 - May 2025**

Indira Gandhi Delhi Technical University for Women, Delhi   CGPA: 7.08/10