Viraj BHardwaj

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Education

Indian Institute of Information Technology, Guwahati	**2022 - 2026**
BTech CSE	

DAV Public School, Kaithal	**2021**
Class XII: CBSE	*92.4%*

DAV Public School, Kaithal	**2019**
Class X: CBSE	*83.4%*

Technical Skills

Languages: C/C++, JavaScript, TypeScript
Frontend: React.js, Next.js, Zustand, Tailwind CSS, Framer Motion, ShadCN, Tanstack Query
Backend: Node.js, Express.js, tRPC, Redis, Socket.io, Zod, Prisma ORM, PostgreSQL
Tools: Git, GitHub, Postman, AWS, Docker

Projects

GITCHAT [🔗 Live ⭘ GitHub]

- Developed an AI-powered **RAG (Retrieval-Augmented Generation)** web app that allows users to provide a GitHub repository URL and ask questions about the repository.
- Built the backend using **Next.js 14**, enabling efficient processing of repository data, file retrieval, and contextual responses.
- Integrated the **GitHub API** for repository metadata, file retrieval, and commit history, alongside the **Gemini API** for code analysis and contextual insights.
- Designed a clean and intuitive UI using **ShadCN** components and **Tailwind CSS**, ensuring a smooth and engaging user experience.
- Integrated **Stripe** for purchasing credits, enabling a seamless and secure payment system for users.

QUIZMIFY [🔗 Live ⭘ GitHub]

- Developed a dynamic quiz platform leveraging Next.js 14 and the **Gemini API** to deliver a seamless user experience and enhanced performance.
- Implemented **server-side rendering (SSR)** and API routes with Next.js 14, enabling fast and secure interactions for quiz creation and participation.
- Integrated the Gemini API to provide robust data handling and external service connectivity for real-time quiz results and analytics.
- Enhanced backend efficiency with **Prisma ORM and PostgreSQL**, optimizing data queries and improving system scalability.

CHATPDF [🔗 Live ⭘ GitHub]

- Developed a **Chatbot** that allows users to upload PDFs and have interactive conversations about the document content.
- Built the backend using **Next.js 14**, ensuring efficient handling of file uploads, parsing, and processing PDF content.
- Integrated **Gemini API** for advanced AI-based natural language processing, enabling contextual and meaningful conversations about the uploaded PDFs.
- Optimized text extraction with **LangChain** and retrieval using **Pinecone DB**, while managing chat data via **Prisma ORM and PostgreSQL.**
- Designed a modern and visually appealing user interface using **ShadCN** components styled with **Tailwind CSS**, ensuring a responsive and cohesive user experience.

QUICKCHAT [🔗 Live 🔗 GitHub]

- Developed a real-time chat application using Next.js, tRPC, and Socket.IO for seamless bi-directional communication.

- Built an Express WebSocket server to handle high-performance message relays and persistent connections.

- Integrated **tRPC** for type-safe API communication, reducing boilerplate and enhancing development efficiency.

- Designed a **responsive UI** with Tailwind CSS and shadcn/ui, ensuring a modern and accessible user experience.