Shiv Raj

shivraj-debug   LinkedIn   ✉ Email   ☎ +91 7903756849

Education

Netaji Subhas University of Technology   2022-2026
B. Tech in Computer Science and engineering

A.N college, Patna Bihar   *2020-2021*
 XII (BSEB)

Saraswati Vidya Mandir,Sitamarhi Bihar   *2018 - 2019*
 X (CBSE)

Project

Digital Wallet   [Source Code]

- Developed a digital wallet system with separate frontends for users and merchants using **Next.js, Tailwind CSS, and Turborepo** for a modular and scalable architecture.
- Implemented secure money transfer functionality with real-time balance updates using **Prisma and PostgreSQL/MySQL.**
- Integrated **NextAuth** for authentication with support for multiple login providers.
- Ensured data validation and type safety using **Zod for backend and frontend validation.**
- Utilized **Webhooks to handle asynchronous events** like transaction updates and notifications.
- Designed a responsive and intuitive **UI using Tailwind CSS** for an enhanced user experience.

Chat Application   [Source Code]

 Developed a real-time chat application with user authentication using **React, Node.js, Express.js, and MongoDB.**
- Implemented **JWT-based authentication and bcrypt for password hashing** to ensure secure user login and signup.
- Enabled real-time messaging using **WebSockets (Socket.io) for seamless user interactions.**
- Designed a **responsive UI with Tailwind CSS** for an enhanced user experience.
- Implemented a **MongoDB database** with an efficient schema for storing user data and messages.

Portfolio Website   [Source Code]

- Built a server-rendered and **SEO-friendly portfolio with Next.js** App Router.
- Designed an interactive **UI with Tailwind CSS, animations, and dark mode.**
- **Implemented a blog system** with authentication & CRUD operations using MongoDB.
- Integrated API routes for **contact form submission and email notifications.**

Technical Skills

 Language: C, C++, JavaScript, TypeScript, SQL   **Backend:** Node.js, Express.js, Hono, PHP
Fronted: HTML, CSS, JavaScript, React.js, Next.js, Tailwind CSS, Socket.io
Databases & ORMs: MySQL, MongoDB, PostgreSQL,
Prisma DevOps & Cloud: AWS, Docker, Cloudflare, Appwrite
Tools & Workflow: Git, GitHub, Postman, Turborepo
Caching & Messaging Queues: Redis, Pub-Sub, Queue Systems

Coding Profiles

Leetcode: **[Profile]** Rated 1602   Code Studio : **[Profile]**

Computer Science Concepts

Computer Networking : OSI Model, Networking Devices, IP Addresses, Protocols, DNS & DHCP .
Software Engineering : Knowledge of software architecture, SOLID principles, software Testing.
Operating Systems : Operating system design and architecture, Security and Protection .
Computer Programming : Object Oriented Programming (OOPs), Functional Programming.
Database Management Systems : Relational and Non-relational databases, SQL.
Data Structures and Algorithms :Data Structures, Design and Analysis of algorithms, complexity analysis.