SOMNATH MISHRA

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EDUCATION

BTech in Computer Science and Engineering   2022 - 2026
Bharath Institute of Higher Education and Research

Chennai

Relevant coursework: **Data Structures and Algorithms**, **DBMS**

EXPERIENCE

Full Stack Development Intern
Vistaran Techtronix
July 2024 – Sept 2024
Gujarat, India

- Developed and maintained a job application platform using **Next.js, Prisma, and Trello** for project management, **integrating Google OAuth to achieve 99% user authentication**.
- Implemented and launched **15+ frontend features** to enhance user experience, resulting in a **25% increase in user engagement and a 30% improvement** in application responsiveness and performance**.**
- Utilized **Prisma ORM to interact with the database**, handling data operations by writing optimized SQL queries and mapping database tables to object-oriented models.

PROJECTS

Chess Game (Code)

  A strategic and interactive online chess game.

- Developed the game logic to handle all standard chess rules, including **castling and pawn promotion**.
- Integrated a user-friendly interface **with real-time updates and animations to enhance the gaming experience**.
- Implemented a **two-player mode** allowing users to play against each other on different devices.
- Tech Stack- ReactJs , Tailwindcss, WebSocket , Node.js

Canvas (Code)

  An interactive and collaborative whiteboard application inspired by Miro.

- Led the development of a **dynamic whiteboard application** to **facilitate real-time collaboration**.
- Implemented core features such as **drawing, text input, and shape creation, allowing for versatile user interactions**.
- Integrated **user authentication** and **session management** for secure and personalized user experiences.
- Utilized **Liveblocks for Realtime APIs**.
- Tech Stack- NextJs, Liveblocks, Clerk , Tailwindcss

Blog Application ([Code])

A full-featured blog platform with **user authentication** and **content management**.

- Developed a user authentication system allowing users to sign up, log in, and manage their accounts securely.
- Implemented functionality for users to **create, edit, and delete blog posts**, providing a comprehensive content management experience.
- Integrated a **search functionality**, allowing users to find specific blog posts by keywords for **improved user navigation**.
- Ensured a **responsive design**, making the application accessible and user-friendly across various devices and screen sizes.
- Tech Stack- HTML, CSS, JavaScript (React.js), Node.js, Express.js, MongoDB, Tailwindcss

Redis Chat App ([Code])

A real-time messaging application with responsive UI and scalable architecture.

- **Developed** real-time messaging functionality using **Upstash Redis** for efficient data storage and retrieval.
- **Implemented authentication and authorization** to secure user data and interactions**.**
- **Configured Pusher** for persistent connections, ensuring seamless **real-time communication**.
- **Utilized React Query** for data fetching and state management, optimizing performance and user experience.
- **Tech Stack**: Next.js 14, TypeScript, Tailwind CSS, Upstash Redis, Pusher, React Query.

TECHNICAL SKILLS

Languages: Javascript, Typescript, java

Technologies: NextJs, React.Js, Express, Node.Js, Prisma, Tailwindcss

Databases: PostgreSQL, MongoDB, Redis

Tools: Docker, Github