

# Sudan Basyal

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Kathmandu, Bagmati Province - 44600, Nepal

## OBJECTIVE

Seeking a challenging position in software engineering to leverage my expertise in React.js, Next.js, Express.js, MongoDB, MySQL, and PostgreSQL. Aiming to contribute to innovative projects at the intersection of web development, scalable system design, and full-stack engineering, with a focus on building efficient, user-centric applications.



## EXPERIENCE

- Velox Labs**  May 2024 - Present  
Software Developer Kathmandu, Nepal
  - Developed and maintained end-to-end web applications using Next.js, React.js, Node.js, Express, MySQL, and PostgreSQL, ensuring seamless UX and high availability.
  - Collaborated with UI/UX designers, QA engineers, Project Managers and stakeholders to gather requirements and deliver high-impact features under tight deadlines.
  - Implemented various frontend optimization techniques such as debouncing, throttling, Memoization and client-side caching to enhance application performance and responsiveness.
  - Built scalable, real-time backend systems with WebSocket support, Redis-based caching, and JWT authentication, enabling high-performance communication and data flow in production environments.
  - Provided hands-on training to interns on frontend technologies including React.js, CSS frameworks, responsive design, and performance optimization techniques.

## EDUCATION

- Kantipur Engineering College** 2019 - 2024  
Bachelor's Degree in Electronics, Communication and Information Engineering Lalitpur, Nepal

## PROJECTS

- Hajir App Dashboard | HR Management Dashboard Tailored for Companies** May 2024 - Present  
Tools: Next.js, Material UI, Redux, RTK Query 
  - Developed a comprehensive HR management system dashboard for efficient attendance tracking, leave, payroll, shift management and many more.
  - Implemented inbox management with real-time updates using WebSockets to display candidate requests such as leave, work-from-home, overtime etc notifications instantly.
  - Created a custom Nepali date picker and calendar components, enabling localized scheduling and event management aligned with the Nepali calendar.
  - Designed a fully responsive dashboard interface, ensuring seamless usability across devices and screen sizes.
  - Implemented global state management and applied optimization techniques such as memoization and debouncing to improve application efficiency and responsiveness.
  - Delivered an end-to-end HRMS solution integrating core HR functions with real-time communication and user-friendly interfaces.
- Dialinger | Cloud-Based Telephony System** Feb 2025 - Apr 2025  
Tools: Next.js, Tailwind CSS, Framer Motion, Twilio SDK, Stripe 
  - Developed a cloud-based telephony platform with features supporting incoming/outgoing calls, SMS, MMS, and real-time call logs using Next.js, Tailwind CSS, and Framer Motion for a responsive and engaging UI.
  - Integrated the Twilio SDK on the frontend to manage real-time voice calls, SMS, and MMS functionalities, ensuring seamless communication experiences.
  - Implemented optimization techniques including rate limiting, throttling, debouncing, responsive tabular views with pagination
  - Integrated Stripe for secure payment processing, enabling users to manage subscriptions and purchase phone numbers effortlessly.
  - Developed interactive analytics dashboards featuring charts and real-time data visualization to monitor call activity and usage trends.
  - Designed and implemented address proofing and KYC verification workflows to meet compliance and regulatory standards.

- **Full-Stack HajirChat | Chat System Integrated in Hajir App**

Dec 2024 - Feb 2025

Tools: Next.js, Express.js, TypeScript, Socket.io, PostgreSQL, Framer Motion



- Developed a full-stack real-time messaging application using Next.js, Express.js, TypeScript, and Socket.io, enabling seamless low-latency communication and collaboration for Hajir App.
- Designed optimized PostgreSQL database schemas for efficient storage and retrieval of messages and user data, while managing file storage separately to ensure system scalability and performance.
- Developed an responsive and user-friendly chat interface using Next.js, Tailwind CSS, and custom components, with Zustand for state management to ensure smooth interactions and optimal rendering performance.
- Integrated Framer Motion animations, enhancing UI responsiveness and boosting user engagement by 35%.
- Added key messaging features, including edit, reply, forward, and reactions, enhancing user interaction within the chat system.

- **Ujyalo Bulletin Website | FullStack News Portal**

Dec 2024 - Jan 2025

Tools: Next.js (SSR), Tailwind CSS



- Developed the frontend for the news portal using Next.js (SSR), Tailwind CSS, ensuring a responsive and performant website with server-side rendering for faster load times.
- Integrated RESTful APIs to dynamically fetch and display news articles, categories, and advertisements, ensuring content freshness and user engagement.
- Built a scalable backend system with Express.js and PostgreSQL to efficiently manage news content, categories, and advertisements with optimized database queries.
- Created secure REST APIs supporting CRUD operations for managing news data, facilitating a flexible and maintainable content management system.
- Developed a user-friendly superadmin dashboard using Material-UI that enables administrators to add, edit, delete news articles, manage categories, and handle advertisements effectively.
- Designed the dynamic homepage to display the latest news, improving user engagement and ensuring content was up-to-date.
- Applied server-side rendering (SSR) techniques to analyze page load times, ensuring fast initial page loads.

## SKILLS

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- **Programming Languages:** JavaScript, TypeScript, Python
- **Web Technologies:** HTML, CSS, SCSS, React.js, Next.js, Express.js, Node.js, REST APIs, Web Sockets
- **Database Systems:** PostgreSQL, MySQL, MongoDB
- **DevOps & Version Control:** Git, Docker
- **Specialized Area:** Full-stack Development, Server-Side Rendering (SSR)
- **Testing Frameworks:** Mocha, Vitest
- **Other Tools & Technologies:** Material-UI, Tailwind CSS, Shadcn

## CERTIFICATIONS

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- **FULL STACK WEB DEVELOPMENT - MERN STACK**

Sep 2023

Deerwalk Institute of Technology