Raj Kumar Timalsina

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Technical Skills

Languages: Dart, JavaScript
Frameworks & libraries: Flutter, Node.js, Express.js
Databases: MongoDB, Firebase (Firestore, Realtime Database)
Development Tools: Git, GitHub, Postman, VS Code, Android Studio
Other Skills: State Management (Provider, Riverpod), REST API Development, Authentication (JWT, Firebase Auth), Real-time Data Sync, Cross-Platform Development

Projects

E-Learning Platform

Personal Project | Flutter, Node.js, MongoDB, Riverpod, Stripe, Firebase FCM   **August 2025**

- Built an interactive online learning platform enabling users to browse and enroll in courses with advanced filtering by category, rating, and price, featuring course completion tracking, rating/review system, and automated certificate generation upon completion.
- Engineered robust backend APIs using Node.js and Express.js with MongoDB for user enrollment management, course progress tracking, and certificate issuance, integrated with Stripe for secure payment processing during course enrollment.
- Implemented Riverpod state management, Firebase FCM for push notifications, and Dio for efficient data fetching with responsive UI design, pagination for large course catalogs, and Shared Preferences for persistent user settings.

Hostel Management System

Personal Project | Flutter, Node.js, Express.js, MongoDB, Provider   **June 2025**

- Engineered a role-based hostel management application for students, staff, and admins featuring room availability management, an issue tracking system, and a request processing workflow with secure access control for different user roles.
- Built RESTful APIs using Node.js and Express.js with MongoDB Atlas and Mongoose for user authentication, room management, issue resolution tracking, and staff assignment functionality with role-based data access.
- Implemented Provider state management, GoRouter navigation, and Shared Preferences for local data persistence with intuitive role-specific interfaces and seamless request management across all user hierarchies.

Job Portal Application

Personal Project | Flutter, Node.js, MongoDB, Provider, Push Notifications   **January 2025 – March 2025**

- Created a job search and recruitment platform enabling users to browse job listings by categories and locations, submit direct applications, save favorite listings, and receive real-time notifications for new job openings.
- Architected scalable backend infrastructure using Node.js and MongoDB to handle user profiles, job listings, and application tracking with efficient data management and search functionality.
- Implemented Provider state management with a user-friendly interface design for a seamless job browsing experience and integrated push notifications for instant job alerts and application status updates.

Full Stack Food Delivery Application

Personal Project | Flutter, Node.js, Express.js, MongoDB, Firebase   **August 2024 – December 2024**

- Delivered a complete food delivery platform enabling users to browse and order food items, utilize search and filter options, manage cart functionality, and process secure checkout with user authentication systems.
- Built robust backend APIs using Node.js and Express.js with MongoDB for handling user management, order processing, ratings/reviews system, and discount/promo code functionality with scalable architecture.
- Integrated real-time order tracking, push notifications, and Firebase services for seamless user experience across the complete food ordering workflow with live status updates.

Education

Birendra Multiple Campus | Tribhuvan University   **2022 – Present**
Bachelor of Science in Computer Science and Information Technology   *Bharatpur, Chitwan*