

PRAMOD ADHIKARI

Software Developer | Full-Stack & Backend Engineering

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PROFESSIONAL SUMMARY

Backend-focused Full-Stack Developer with hands-on production experience building and scaling web and mobile applications using Node.js, Express, NestJS, React, Flutter, and SQL/NoSQL databases. Proven track record delivering end-to-end features across e-commerce, logistics, and gamified-engagement platforms, from database schema and REST API design through to deployment. Comfortable working with AI-assisted development workflows (ChatGPT, Gemini, Claude) to accelerate debugging and prototyping. Currently pursuing an M.Sc. in Information Technology; seeking to bring strong system-design fundamentals, ownership, and a fast-shipping mindset to a senior software development role.

TECHNICAL SKILLS

- **Languages & Runtimes:** JavaScript, TypeScript, Dart, SQL
- **Backend & APIs:** Node.js, Express.js, NestJS, REST API design, JWT authentication, MVC architecture
- **Frontend & Mobile:** React, Next.js, Flutter (web & mobile), HTML/CSS, WordPress
- **Databases:** MongoDB, SQL, ChromaDB (vector store)
- **System Design & Practices:** Role-based access control, service-layer separation (mobile app / admin dashboard / backend API), CORS & environment configuration, Git/GitHub version control, SEO optimization
- **AI Tooling:** Google Gemini API, LangChain, prompt engineering, AI-assisted debugging with ChatGPT / Claude
- **Productivity:** MS Word, Excel, Visio, PowerPoint, OneDrive

PROFESSIONAL EXPERIENCE

Backend Developer — Bechchhatech Pvt. Ltd.

Jan 2025 – Present

Kathmandu, Nepal

- Built and maintain backend services for eSalesNepal.com, an e-commerce platform, owning database schema design, server-side business logic, and order/inventory workflows in Node.js.
- Improved performance and scalability of the Kilometer Travel website by optimizing backend queries and refactoring bottleneck endpoints.
- Designed and developed the R&R Production website (HTML, CSS, JavaScript) with a responsive, mobile-first UI.
- Built and customized the Krisak-II website on WordPress, integrating plugins and improving on-page SEO to increase organic visibility.
- Developed a real-estate management system for DJAVA Construction Company, structuring the backend data model and content-management workflows for property listings.

Product Development Intern — CG Communication

Sep 2024 – Dec 2024

Kathmandu, Nepal

- Supported the Product Manager through market research and feature validation during the initiation phase of new product lines.
- Partnered with cross-functional teams (design, engineering, QA) to translate customer insights into product requirements.
- Contributed to testing cycles and product concept refinement ahead of launch.

SELECTED PROJECTS

eSalesNepal.com — E-Commerce Platform

Node.js · SQL · REST APIs

- Own backend development for a live e-commerce platform: database schema design, product/inventory management, and server-side business logic for orders and checkout.
- Built and maintain REST APIs consumed by the storefront, focusing on data integrity and query performance as the catalog scales.

Kilometer Travel — Travel Booking Website

Node.js · Performance Optimization

- Profiled and optimized backend endpoints to reduce load times, improving scalability of a live travel-booking site.
- Refactored slow queries and server-side logic to support smoother booking and browsing workflows.

DJAVA Construction — Real Estate Management System

Node.js · Database Design · CMS

- Designed the backend data model and content-management workflows for property listings, agents, and inquiries.
- Structured the system so non-technical staff could manage listing content without developer involvement.

R&R Production & Krisak-II — Business Websites

HTML/CSS/JS · WordPress · SEO

- Designed and built the R&R Production website end-to-end (HTML, CSS, JavaScript) with a responsive, mobile-first layout.
- Built and customized the Krisak-II website on WordPress, integrating plugins and optimizing on-page SEO to improve organic visibility.

Ecotrade — Scrap-to-Reward Marketplace (Full-Stack, Ongoing)

Flutter · Express.js · Mobile + Web

- Building a full-stack platform (Flutter mobile app, web admin panel, Express.js backend) that lets users submit household scrap for collection in exchange for redeemable reward points.
- Designed the multi-role pickup workflow: user submits a scrap request → admin assigns a rider → rider collects and hands off to a driver → driver delivers to the admin facility.
- Implementing the upcycling pipeline where collected scrap is converted into handmade decor products, which are then listed for sale in an in-app marketplace.
- Building the points ledger system so users earn points per kg/item of scrap sold and can redeem points toward marketplace purchases.

TRTripSathi — Travel Engagement Platform (Personal Project)

NestJS · Next.js · Flutter · MongoDB

- Architected a three-application system: a NestJS/MongoDB REST API, a Next.js admin dashboard, and a Flutter app (web + mobile) for end users.
- Implemented JWT-based authentication with an XP, rank, and achievement system to drive user engagement, along with trip, review, chat, and notification services.
- Solved cross-origin and environment-configuration issues across three separately-deployed apps by centralizing CORS allowlists and API base-URL configuration.
- Documented a prioritized (P0/P1/P2) technical roadmap covering security hardening, automated end-to-end testing, and dashboard delivery — demonstrating planning for production-readiness, not just feature building.

NewsVeritas — AI News Credibility Checker (Contract for a friend's project)

Python · Streamlit · Gemini API · LangChain

- Built as the sole developer on this project: a Streamlit dashboard that scores Nepali news articles for credibility using Google Gemini for summarization and Google Fact Check Tools API for verdicts.

- Implemented a weighted scoring engine (fact-check verdicts, cross-source corroboration via Gemini embeddings + ChromaDB, and a Nepali/English bias-keyword lexicon) to output an explainable credibility score.
- Set up the RAG-style evidence store using LangChain and ChromaDB so new articles are cross-checked against previously vetted Nepali sources.

EDUCATION

M.Sc. (Hons.) Information Technology	2025 – Present
<i>Lord Buddha Education Foundation (LBEF), Maitidevi, Kathmandu</i>	
B.Sc. (Hons.) Information Technology	2023 – 2025
<i>Lord Buddha Education Foundation (LBEF), Maitidevi, Kathmandu</i>	

LEADERSHIP & EXTRACURRICULAR

- College President, Student Representative Council (SRC) — organized campus-wide events and led initiatives to strengthen student engagement and leadership development.