KRISHNA TIWARI

FULL STACK ENGINEER · WEB & AI

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Full Stack Developer with 3+ years of experience building web applications, backend APIs, and AI-powered tools. Built prototypes as R&D Engineer at Hyperce, co-founded Nexis, and shipped production features for Restronaut.ai and Nepal's official Citizen Portal (DONIDCR). Focused on clean code, practical system design, and shipping reliable products.

TECHNICAL SKILLS

FRONTEND
Next.js, React, TypeScript, Inertia.js, Tailwind CSS, Shadcn UI, Next-Intl

BACKEND
Laravel, Node.js, Hono, Python, REST APIs, Redis, Background Queues

AI & TOOLS
LangChain, LangGraph, LLM Function Calling, Docker, Linux / Bash, GitHub Actions

DATABASES
PostgreSQL, MySQL, Drizzle ORM, Eloquent ORM, Database Design

PROFESSIONAL EXPERIENCE

R&D Engineer · Hyperce LLC
Oct 2025 – Feb 2026

Kathmandu, Nepal (Hybrid · IME Complex) · Tech: Laravel, Next.js, Python, Docker, AI Tools

- Researched and built working software prototypes using **Next.js, Laravel, Python**, and modern AI tools.
- Built practical AI workflows using **LangChain and LangGraph** for automated data processing and task execution.
- Set up **Docker** containers for local development and testing to ensure consistent environments across the engineering team.
- Tested and benchmarked different backend setups to improve API response times for upcoming projects.

Co-Founder & Full Stack Developer · Nexis
Jul 2024 – Present

Remote · Tech Startup · Tech: Next.js, Laravel, Node.js, TypeScript, MySQL

- Co-founded the startup and built the core web application from scratch using **Next.js** and **Laravel**.
- Designed database tables, user authentication, and secure **REST APIs** to handle user traffic and transactions.
- Wrote end-to-end features, from frontend user interfaces down to backend business logic and database queries.
- Managed project roadmap, code reviews, documentation, and cloud deployments.

Full Stack Developer · Restronaut.ai
Nov 2024 – Oct 2025

Remote · Restaurant Technology Platform · Tech: Laravel, React, MySQL, Redis, Docker, SendPortal

- Built production features for **Restronaut.ai**, a software platform used by restaurants for online ordering and customer management.
- Customized and expanded an open-source marketing engine (**SendPortal**) using **Laravel** and **Redis queues** to reliably send automated emails and SMS.
- Built fast backend API endpoints in Laravel and created interactive dashboard screens using **React** and **Tailwind CSS**.
- Improved SQL queries and added caching to speed up customer-facing pages and reporting tools.

Full Stack Developer · Intellisoft Nepal
Mar 2024 – Jul 2024

Kathmandu, Nepal · Tech: Next.js, PHP, MySQL, REST APIs

- Developed and maintained client web applications using **Next.js** and **PHP**.
- Cleaned up database queries and built responsive, clean interfaces that work well on both mobile and desktop browsers.
- Connected external REST APIs and payment services into existing client workflows.

PROFESSIONAL EXPERIENCE (CONTINUED)

ReactJS Developer · **CS Sewa** Sep 2023 – Feb 2024

Lalitpur, Nepal · Tech: React, JavaScript, REST APIs

- Built user interface screens for Nepal's public citizen services portal using **React** and JavaScript.
- Turned design files into clean, reusable React components with clear state management.
- Connected frontend forms to backend REST APIs and handled form validation, loading states, and errors.

Laravel Tutor · **Lumbini ICT Campus** Sep 2022 – Jan 2023

Nepal · College Instructor · Tech: Laravel, PHP, MySQL, MVC

- Taught web development fundamentals with PHP and Laravel to 30+ undergraduate students.
- Led practical lab sessions covering database migrations, Eloquent ORM, user authentication, and final project development.

FEATURED PROJECTS

Upabhog – Hyperlocal Commerce & AI Discovery Platform upabhog.com ↗

Public: Next.js · Dashboard & Backend: Laravel + React (Inertia.js) · AI: LangChain, LangGraph, Hono · DB: PostgreSQL

Built a hyperlocal marketplace connecting local shops and customers across Nepal. Created the public storefront in **Next.js** and the vendor/admin dashboards in **Laravel + React (Inertia.js)**. Integrated **LangChain, LangGraph, and Hono** to let shop owners list products using natural voice or text descriptions, and enabled conversational product search. Stored all platform and store data in **PostgreSQL**.

Citizen Portal of Nepal (Official Government Services Portal) citizenportal.donidcr.gov.np ↗

Next.js · Next-Intl · TypeScript · Tailwind CSS

Built the frontend for the official digital citizen portal for the **Department of National ID and Civil Registration (DONIDCR)**, Government of Nepal. Added English and Nepali language support, built accessible citizen service forms, and ensured fast loading on mobile networks.

Gym Membership & Biometric Access System

Laravel · React · Inertia.js · Shadcn UI · HIKVision Biometric Hardware

Built a gym management application connected directly to **HIKVision biometric turnstiles** for gate access. Handles member subscriptions, automated expiry alerts, real-time attendance tracking, and staff schedules.

Location-Based Multivendor Marketplace Laravel · MySQL · Tailwind CSS · REST APIs

Built an e-commerce platform where customers find nearby shops using GPS location. Includes multi-vendor management dashboards, stock tracking, and order checkout workflows.

Restronaut.ai – Marketing Campaign & Automation Engine Laravel · React · Redis · SendPortal

Customized and scaled open-source SendPortal for **Restronaut.ai**. Set up background queues with **Redis** to reliably dispatch high-volume email and SMS campaigns, with tracking for deliveries and clicks.

EDUCATION

Bachelor's in Computer Application (BCA)

Lumbini ICT Campus · Tribhuvan University

2019 – 2024 · Nepal

Core coursework: Data Structures, Algorithms, Database Systems, Software Engineering, and Computer Networks.

Advance Diploma in Software Engineering (ADSE)

WAP Institute

2019 – 2023 · India

Practical software training covering Object-Oriented Programming, web development, design patterns, and clean code practices.