# DEV RAJ BHATTARAI

*Software Engineer*

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## PROFESSIONAL SUMMARY

React and MERN Stack Developer with 5+ years of experience building performant, production-grade web applications across ERP, fintech-adjacent, e-commerce, and social platforms. Skilled in React, Next.js, Node.js, and MongoDB, with recent focus on designing AI-powered features using LLM integration, prompt engineering, and semantic recommendation systems. Comfortable owning features end-to-end, from API design through deployment, and collaborating directly with clients and cross-functional teams.

## SKILLS

**Frontend:** React.js, Next.js, TypeScript, JavaScript (ES6+), Redux Toolkit, React Query (TanStack Query), Tailwind CSS, Responsive UI development

**Backend:** Node.js, Express.js, REST APIs, JWT authentication and refresh tokens, Role-based access control (RBAC), Webhook handling (RevenueCat)

**Databases:** MongoDB, Mongoose, Indexing and aggregation pipelines

**Cloud & deploy:** AWS EC2, PM2, Nginx, Server deployment

**Real-time:** Socket.IO, Firebase (authentication and real-time data sync)

**AI integrations:** OpenAI API (GPT), Prompt engineering, Structured JSON outputs, Semantic intent matching, AI-based image moderation

## WORK EXPERIENCE

**Riddhasoft Pvt. Ltd.** — Kathmandu, Nepal *Mar 2023 – Jul 2025*

*React Developer*

- Developed and maintained web applications using Next.js, delivering performant, production-ready user interfaces.
- Integrated and customized ERP systems with a focus on accounting modules.
- Implemented authentication, authorization, and role-based access control, including fingerprint-based user identification for a more intuitive UX.
- Built locker management features covering availability status, allocation, and user permissions.
- Collaborated closely with the back-end team to integrate the front-end with server-side APIs.

**Dynamic Technosoft Pvt. Ltd.** — Kathmandu, Nepal *Mar 2022 – Aug 2022*

*React Developer*

- Designed and implemented intuitive, responsive user interfaces using React, CSS, and Bootstrap.
- Collaborated with back-end developers and designers to deliver features aligned with user and business needs.

**Wepost Pvt. Ltd.** — Kathmandu, Nepal *May 2021 – Dec 2021*

*React Developer*

- Translated UI/UX wireframes into high-quality, reusable React components for production web applications.
- Managed application state using the React Context API.
- Collaborated with design and back-end teams, and assisted in testing and debugging to ensure stable, bug-free releases.

**Brainants Technology** — Kathmandu, Nepal *Jul 2019 – Dec 2019*

*Internship Trainee*

- Built foundational proficiency in HTML, CSS, React, and Firebase while working alongside senior developers to learn industry best practices.

## FREELANCE EXPERIENCE

**CRAVE – Social & Dining** — Dubai, UAE *Mar 2026 – Present*

*MERN Stack Developer*

- Architected a scalable backend for a social networking platform (Node.js, Express.js, MongoDB, Socket.IO) supporting user matching, connections, and real-time messaging.
- Built an AI-powered intent-matching engine using OpenAI GPT models, prompt engineering, and a custom semantic taxonomy to match users on dining, activity, and social intent.
- Designed a hybrid recommendation pipeline combining rule-based extraction, taxonomy clustering, and LLM evaluation to improve match accuracy while reducing inference cost.
- Implemented secure authentication using JWT, refresh tokens, and role-based access control (RBAC) for users and administrators.
- Integrated RevenueCat for subscription management, in-app purchases, and billing lifecycle, with secure webhook handling for payment and third-party events.
- Optimized MongoDB performance through indexing, aggregation pipelines, and query tuning.
- Built admin platform APIs for user management, content moderation, reporting, and analytics.
- Implemented AI-based image moderation to flag inappropriate content and support platform safety.

**Coupon** — Kathmandu, Nepal *Sep 2025 – Mar 2026*

*MERN Stack Developer*

- Built a production-grade Coupon Management System (Next.js, React, Node.js, Express.js, MongoDB) covering the full coupon lifecycle: creation, validation, redemption, and expiration.
- Developed RESTful APIs integrated with checkout, order management, and payment systems for accurate discount application.
- Implemented atomic, concurrency-safe transactions to prevent coupon misuse and maintain data consistency.
- Collaborated directly with clients and stakeholders to gather requirements and refine business logic for production releases.

**Vhandar** — Kathmandu, Nepal *Jul 2024 – Dec 2024*

*MERN Stack Developer*

- Developed full-stack e-commerce features using React, Next.js, Node.js, Express.js, and MongoDB.
- Built responsive, mobile-first UI, translating design wireframes into reusable, type-safe components with TypeScript and Tailwind CSS.
- Designed RESTful APIs for authentication, product management, and order processing.
- Live project: vhandar.com

**Smerafaces** — Kathmandu, Nepal *Oct 2020 – Mar 2021*

*React Developer*

- Built and maintained web application UI using React and Redux.
- Implemented authentication and real-time data sync using Firebase.

## CERTIFICATIONS

**Agentic AI Nanodegree** — Udacity, Apr 2026

Verified certificate: udacity.com/certificate

## EDUCATION

**Tribhuvan University** — Kathmandu, Nepal

*BSc, Computer Science & IT*