

SHUDARSAN PAUDEL

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Professional Profile

Full Stack Developer with 2+ years of experience building scalable, production-ready web applications. Specialized in the MERN stack with strong expertise in Next.js, TypeScript, and backend system design. Experienced in delivering high-performance solutions with real-time features, payment integration, authentication, and cloud deployment.

Technical Skills

Languages & Frameworks: JavaScript, TypeScript, React, Next.js, Node.js, Express.js, Golang
Databases & ORM: PostgreSQL (Neon), MongoDB, Prisma, Drizzle ORM, Redis (Upstash)
Tools & Services: Git, Docker, Clerk, Cloudinary, Stream (Chat & Video), Polar, ImageKit, Sentry, Winston Logger
Other: REST APIs, Real-time Collaboration (Liveblocks), Lexical Editor, Rate Limiting, Webhooks

Professional Experience

Freelance Web Developer – Khushi Edu Consultancy Pvt. Ltd. June 2024 – April 2026
Kathmandu, Nepal

- Architected and deployed full-stack web solutions using React, Next.js, Node.js, and Express.js for educational consultancy operations in Nepal and Japan.
- Developed two responsive landing pages for international markets with optimized user flows and multilingual support.
- Built a Classroom Management System using React, Refine, Node.js, and PostgreSQL with department management, student enrollment, role-based attendance tracking, and analytics dashboards.
- Developed a student agreement form system that processes submissions and converts them into image-based records for documentation.
- Implemented backend APIs and integrated cloud services including PostgreSQL (Neon), Cloudinary, Render, and Vercel.
- Containerized backend services using Docker and optimized deployments with infrastructure monitoring.

On-The-Job Training (OJT) – Web Developer June 2023 – December 2023
Bal Uddhar Secondary School, Kathmandu, Nepal

- Developed a feature-rich MERN stack Real Estate platform with product listing, authentication, cart management, and order processing.
- Gained hands-on experience with deployment pipelines and cloud databases for production-ready workflows.

Featured Projects

NepCart – Full-Stack E-Commerce Platform
GitHub | Live Demo

- Production-grade e-commerce application built with modern SaaS architecture.
- Frontend: React with TanStack Query and Tailwind CSS/DaisyUI for responsive UI.
- Backend: Express.js with TypeScript and Winston Logger for type-safe APIs and structured logging.
- Authentication: Clerk for secure user management and authentication flows.
- Database: PostgreSQL hosted on Neon with optimized queries and migrations.
- Payments: Polar integration for secure payment processing and subscription management.
- Features: Product catalog, advanced cart management, order processing, and admin dashboard.
- Real-time Communication: Customer support chat with Stream SDK, including typing indicators, reactions, threaded conversations, GIF and file support.
- Video Calling: Integrated Stream video calling for customer-support interactions.
- Rate Limiting: Upstash Redis sliding window rate limiter for API protection and abuse prevention.
- Image Optimization: ImageKit for efficient uploads, optimization, and fast delivery.
- Monitoring: Sentry integration for error tracking and performance monitoring.
- Infrastructure: Webhooks for event-driven architecture and external integrations.

Classroom Management System – Educational Administration Platform

Live Demo

- Full-stack administrative platform for Khushi Edu Consultancy built with React, Refine, Node.js, Drizzle ORM, and PostgreSQL.
- Frontend Architecture: React with Refine admin framework, Vite, and Tailwind CSS for responsive dashboard development.
- Backend Infrastructure: Express.js with Drizzle ORM for type-safe database operations and Better Auth for session management.
- Database: PostgreSQL (Neon) with hierarchical schema design for departments, subjects, classes, enrollments, and attendance tracking.
- Core Features: Department and subject management, class creation, multi-role system, and invite-based enrollment.
- Attendance System: Role-based attendance marking with status tracking and daily/monthly attendance summaries.
- Analytics & Charts: Pie charts for daily attendance distribution, stacked bar charts for monthly trends, and performance insights.
- User Roles & Permissions: Admin full access, teachers manage classes and attendance, students view profile and enrollment status.
- API Design: RESTful endpoints with filters, pagination, and bulk operations for efficient data management.
- Data Visualization: Recharts integration for interactive attendance charts and real-time updates on modifications.

Khushi Edu Landing Pages – International Market Presence

Nepal Site | Japan Site

- Developed two market-specific Next.js landing pages for Nepal and Japan with multilingual support.
- Optimized conversion flows with market-specific content, responsive design, and SEO best practices.

Collaborative Document Editor – Real-Time Editing Platform

GitHub | Live Demo

- Built with Next.js, Clerk authentication, Lexical editor, and Liveblocks for real-time collaborative editing.
- Implemented permission management, live cursor tracking, conflict resolution, and instant synchronization.

Vybe – Full-Stack Social Media Application

GitHub | Live Demo

- Built with Next.js, Prisma ORM, PostgreSQL, and Clerk authentication.
- Implemented post, comment, like, and follow systems with interactive social features.

Education

Bachelor of Science in Computer Science and Information Technology

2023 – Present

St. Lawrence College, Tribhuvan University, Kathmandu, Nepal

+2 in Computer Engineering

2021 – 2023

Bal Uddhar Secondary School, National Examination Board, Kathmandu, Nepal

Certifications & Continuous Learning

- Certificate of Completion – On-the-Job Training (2023)
- MERN Stack Professional Certificate – Zukti Tech (2024)
- Backend Development in Node.js – The Boring Education, Shikshya Course (May 2025)
- Chatbot Development with Express.js & Gemini API – Zukti Tech (June 2025)

Leadership & Professional Attributes

- Demonstrated continuous learning through independent development of multiple full-stack and systems programming projects.
- Mentored peers and junior developers by sharing technical knowledge and best practices.
- Strong communicator with the ability to translate complex technical concepts for diverse stakeholders.
- Creative problem-solver adept at designing scalable solutions for business challenges.