

Saurav Dhakal

Pokhara, Nepal • sauravdhakal121@gmail.com • [Linkedin](#) • [Github](#)

Software Engineer with 2+ years of experience in designing and delivering scalable systems using Node.js (NestJS, Express), React.js and PostgreSQL. Adept at architecting clean, maintainable codebases, developing microservices, and optimizing database performance. Proven ability to lead backend modules, implement secure authentication, and integrate real-time features (WebSockets, notifications) in production-grade applications.

PROFESSIONAL EXPERIENCE

Software Engineer - Vending Hub Nepal | Pokhara, Nepal

Nov 2025 - Present

- Architected a **multi-tenant** news platform backend using **NestJS** (modular pattern) and **PostgreSQL**, serving research content with clean separation of tenant data and access control.
- Implemented **event-driven** notifications using **EventEmitter2** and **WebSocket** connections for real-time content delivery and user alerts.
- Designed and integrated a caching layer using **Cloudflare** with dynamic cache purging and invalidation strategies, significantly reducing origin load and improving response times.
- Managed **Azure** cloud infrastructure for production services including deployment pipelines, storage, and environment configuration using Docker for service orchestration.
- Contributed to a **React Native (Expo)** mobile app, integrating it with backend APIs for push notifications and content consumption on mobile.
- Designed a trading platform architecture for the Nepali market inspired by modern brokerage systems, including polymorphic table design, Single Source of Truth (SSOT) principles, and scalable data modeling for real-time order and portfolio management.

Software Engineer - Skybase Innovations | Pokhara, Nepal

May 2025 - Nov 2025

- Developed a **food delivery platform** for a US based company, focusing on scalability, maintainability, and performance.
- Architected services using **NestJS**, **Prisma ORM**, and **PostgreSQL** following clean code and DDD principles.
- Implemented **real-time order tracking** system using **WebSockets** and handled push notifications for delivery updates.
- Ensured security and data integrity through robust authentication and authorization systems.

Backend Engineer - Void Nepal | Kathmandu, Nepal

May 2025 - Feb 2024

- Developed backend infrastructure for an **EdTech application** to streamline educational content delivery.
- Designed and implemented RESTful APIs for user management, content access, and interactive features.
- Worked with **Node.js (NestJS, ExpressJS)** and **PostgreSQL (PrismaORM, TypeORM)** in a microservices setup.
- Optimized database queries, reducing response times by implementing efficient pagination and indexing.

KEY SKILLS

- **Languages:** JavaScript, TypeScript, SQL, Python, Java, C/C++
- **Backend:** Node.js, NestJS, ExpressJS, Prisma ORM, PostgreSQL, MongoDB
- **Tools & Platforms:** Git, Postman, Docker (basic), Jupyter Notebook, Firebase, Cloudinary, Neon
- **Other:** REST APIs, Microservices, WebSockets, OAuth, API Security

PROJECTS

Healthpost Management App - Backend Developer | Academic Project

[GitHub](#) | [View Project](#)

- Developed an internal platform for managing healthcare patients, staff and assets (ambulances, oxygen cylinders, beds) across rural health posts in Nepal.
- Designed robust **PostgreSQL schemas** and implemented backend services using **NestJS** and **Prisma ORM**.
- Enabled real-time asset tracking and availability using structured APIs and relations.
- Deployed frontend on **Vercel** and backend on **Render** with CI/CD pipelines for automated deployment.
- Focused on maintainable architecture, modular code structure, and optimized database querying for high performance.

Recipe Sharing Platform - Backend Developer | Academic Project

[GitHub](#) | [View Project](#)

- A social media style Recipe Sharing Platform where users can discover new recipes or share their own.
- Implemented user authentication and authorization, recipes and users management
- Integrated **Cloudinary** for image uploads and **Neon** based PSQL database for cloud databases.
- Integrated **OAuth** for a user-friendly login experience and incorporated best practices for scalability and performance.
- Utilized: ExpressJS, PostgreSQL, Prisma ORM

Stock Portfolio Tracker - Fullstack developer | Individual Project

[Frontend](#) | [Backend](#)

- Built a comprehensive stock portfolio tracker using the MERN stack, enabling users to manage their stock portfolio and get real time updates on stock prices, implemented by integrating NEPSE's official API.
- Utilized: React, NodeJS, Express, MongoDB

The Scheduler App - Co-developer | Academic Project

[GitHub](#)

- Developed a mobile and web application where college students can login to view their universities routines and notices. Integrated firebase as a backend service for storing data and enabling seamless user authentication.
- Utilized: Dart, Flutter, Firebase, Android Studio

EDUCATION

Pokhara University | Bijaypur, Pokhara

July 2025

Bachelor in Software Engineering

- Relevant coursework: Data Structures and Algorithms, Java, C/C++, Software Architecture, Web Technologies, Database Management, Network Programming.

CERTIFICATIONS

- Programming Language, Part A ([University of Washington](#))
- Bits and bytes of Computer Networking ([Google](#)),
- Train the Student Workshop ([Erasmus + EU](#))