

# Sijal Manandhar

## Web Developer

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## Skills

### Programming Languages

JavaScript (ES6+), TypeScript,  
Python, Java, C, SQL

### Frontend

React, Next.js, Svelte, Redux Toolkit,  
Tailwind CSS

### Backend & Runtimes

Node.js, Express, Django, REST APIs,  
WebSockets (Socket.io)

### Databases & Tools

PostgreSQL, MongoDB, Git, Linux,  
Vim

## Languages

English | Nepali

## Summary

**Full-Stack Developer** focused on architecting end-to-end web applications with modular backend logic, real-time protocols, and serverless client-side execution. Adept at translating complex data requirements into accessible, minimalist interfaces and reliable digital products. Combines strong analytical problem-solving with active engagement in modern open-source ecosystems.

## Projects

### [Python Handbook | Interactive Learning Platform](#) 🔗

- Built a serverless, browser-based execution environment using **Pyodide** and **WebAssembly** to instantly evaluate Python code client-side without backend overhead.
- Developed structured, interactive coding challenges using **Next.js** and **TypeScript** to provide immediate compilation feedback to users.

### [Project Dialoga | Real-Time Chat App](#) 🔗

- Architected a full-stack, bi-directional messaging application utilizing **WebSockets** and **Express** to facilitate instant data synchronization.
- Engineered real-time presence features (user online/offline status) and typing indicators while managing atomic message persistence in **MongoDB**.

### [ShopSwift | E-commerce Web App](#) 🔗

- Developed a responsive full-stack e-commerce application utilizing the **MERN stack** (MongoDB, Express, React, Node).
- Architected user authentication workflows, stateful shopping cart management via **Redux Toolkit**, and optimized fluid, mobile-first design using **Tailwind**.

## Education

### **Bachelor of Computer Applications,**

*Kathmandu Bernhardt College*

2024 | Bafal, Kathmandu

### **+2 Management,**

*Kathmandu Bernhardt Secondary School*

2022 – 2024 | Balkhu, Kathmandu