

Sagar Thapa Chhetri

FullStack Developer

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[[Portfolio](#)] [[LinkedIn](#)] [[Github](#)]

Work Experience

FullStack Developer at Nepsky Prev. (Bootwall R&D) [\[Site\]](#) [\[LinkedIn\]](#)

Feb 2023-Jan 2024

I was involved in building management systems College MS and News Portal and as a Web3 frontend freelancer, building dApp interfaces and integrating smart contracts using modern Web3 libraries.

As frontend role

- Built responsive UIs with React.js and Tailwind CSS.
- Managed global state using Redux.
- Integrated REST APIs with authentication and protected routes.
- Developed Web3 dApp interfaces and integrated smart contracts.

As Backend role

- Designed and developed RESTful APIs using Node.js and Express.js.
- Managed relational data using MySQL with Sequelize ORM.
- Implemented authentication, role-based access control, and input validation.
- Structured scalable backend architecture with proper error handling and middleware patterns.
- Deployed and managed backend services on VPS servers, handling production builds.

FullStack Developer at Beyond Labs [\[Site\]](#) [\[LinkedIn\]](#)

March 2024-Jan 2026

I was involved in building MVP for BeyondAI, a DeFi Copilot that replaces smart contracts using prompt based instruction possible due to LLMs, and building serverless microservices using AWS Lambda for apps like telegram wallet and authentication services

As frontend role

- Developed frontend using Next.js and Next APIs.
- Used AI agent to convert figma design into modern frontend components.
- Worked within a unified monorepo containing BeyondAI Docs, shared APIs, and frontend applications.
- Worked with frontend libraries such as wagmi, ether js and many web3 development practices.
- Developed Web3 dApp interfaces and integrated smart contracts.

As Backend role

- Built serverless microservices using AWS Lambda.
- Followed TDD workflow across authentication, wallet, and Telegram services.
- Involved in writing test cases for all services and integrated with CI/CD pipelines.
- Developed DeFi Copilot using LLM integrations (OpenAI, Grok-3).
- Integrated EVM smart contracts across Polygon and Base networks.

Projects

Aira Events Event Management System [\[LINK\]](#)

Aira Events is a full-stack event management platform designed to streamline event discovery, administration, and booking workflows. Built with Next.js (App Router), TypeScript, MongoDB, Tailwind CSS, and shadcn/ui, it follows a clean layered architecture separating domain logic, services, repositories, and API routes for scalability and maintainability. The system includes JWT-based authentication with role-based access control, a secure read-only demo mode, Zod schema validation, and standardized API responses for consistent error handling. An admin dashboard enables efficient management of events, categories, and bookings alongside public event browsing, supported by comprehensive README and API documentation with structured request/response specifications and realistic cURL examples for every endpoint.

Food Ordering System [\[LINK\]](#)

I built a full-stack Food Ordering System that streamlines online purchases from menu browsing to checkout and real-time order tracking, supporting both customer and admin workflows. The frontend was developed with React, Redux Toolkit, Tailwind CSS, and React Router, while the backend uses Node.js, Express, MySQL, and Sequelize ORM with JWT-based authentication and Cloudinary file uploads. Customers can authenticate, manage profiles, browse categories, search items, manage carts, and track orders, while admins manage menu items, users, order lifecycles, and sales reporting through a centralized dashboard. To explore modern payment architectures, I integrated an optional Ethereum Sepolia Web3 payment flow with MetaMask wallet support, validating transaction hashes on the backend to ensure secure and reliable blockchain-based payments within a production-style system.

News Portal [\[LINK\]](#)

I built a full-stack News Portal Platform designed to manage and publish digital news content through structured, role-based workflows for superadmins, admins, editors, and users. Designed as a dynamic, multi-tenant-style system, it supports company-level management of news channels, categories, articles, advertisements, advertisers, and transaction records. The frontend was developed using React and Tailwind CSS with modular components and a customized CKEditor integration for rich-text content creation, while the backend leverages Node.js, Express, MySQL, and Sequelize ORM to handle relational data modeling and RESTful APIs. JWT-based authentication and role-based authorization middleware enforce secure access control, and a dynamic advertisement module enables scheduled ad placements with structured transaction tracking. Cloudinary integration ensures secure media uploads and optimized delivery, reflecting a scalable, production-style content management architecture.

Trade Flux, a defi using Chainlink CCIP [\[LINK\]](#)

I built a DeFi trading application that automates crypto trades using Chainlink price feeds to execute rule-based strategies during high-volatility market conditions. Users authenticate via MetaMask, after which the system provides a smart account using Thirdweb account abstraction and deploys a personalized multi-token keeper wallet through a factory contract architecture. The platform requires LINK tokens on Base Sepolia to initialize the keeper account, which can then manage assets such as BTC, ETH, LINK, and USDT. Users can create conditional limit orders triggered by BTC or ETH price movements, enabling automated strategy execution based on correlated market behavior and reducing emotion-driven trading decisions through structured on-chain logic.

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