NITESH KARNA

Frontend Engineer | Working Student (M.Sc. Data Science, TU Dortmund)

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TECHNICAL SKILLS

- **Frontend:** Next.js 15 (App Router), React.js, React Native (Expo), TypeScript, HTML5, CSS3/SCSS, Tailwind CSS v4, Material UI, Responsive Design.
- **State Management:** Redux Toolkit, React Query (TanStack), Context API, Zod, Axios, Client-side Synchronization.
- **Backend & Integration:** Node.js, Express, RESTful APIs, RPC APIs (Blockchain), GraphQL, Sanity CMS, Stripe, Authentication (NextAuth, Clerk, Firebase Auth).
- **Databases & Cloud:** PostgreSQL (Supabase, Prisma), MongoDB, MySQL, Firebase, Vercel, Netlify, Docker (Containerization),Git/GitHub, CI/CD Pipelines.
- **Blockchain & Web3:** Ethers.js, Web3.js, Solidity, MetaMask Integration, Smart Contract Interaction (EVM, Sui, Solana).
- **Programming & Data Science:** Python (NumPy, Pandas), C, C++.

PROFESSIONAL EXPERIENCE

Software Engineer | venture23 LLC, Nepal
Jun 2021–Sep 2025 | Hybrid

- **Frontend Leadership:** Spearheaded frontend development across multiple high-impact projects as Lead Engineer, establishing best practices for code quality, modular architecture, and seamless deployment workflows.
- **Modern Web Stack:** Engineered scalable web applications using **React.js**, **Next.js 15 (App Router)**, and **TypeScript**, converting complex Figma wireframes into high-performance, reusable component libraries.
- **Web3 & Blockchain Integration:** Developed seamless user interfaces for decentralized applications (dApps) by integrating **RPC APIs** and Smart Contracts across **EVM, Sui, Solana, and ICON** networks using **Ethers.js** and **Web3.js**.
- **API & State Management:** Architected data-driven features by integrating complex **RESTful and RPC-based APIs**, managing global state via **Redux Toolkit** and **React Query** for real-time synchronization.
- **Performance Optimization:** Improved core web vitals and cross-browser compatibility by implementing **Tailwind CSS v4**, memoization, and lazy-loading, ensuring mobile-first responsive design.

Frontend Developer Intern | Young Innovations, Nepal
Aug 2020–May 2021 | Remote

- **UI/UX Implementation:** Accelerated development cycles by slicing **Figma designs** into pixel-perfect, responsive React components using **ES6+** and modern CSS methodologies.
- **Cross-Functional Collaboration:** Partnered with **QA teams** and **Backend Engineers** to debug frontend issues and ensure 100% API contract alignment during integration.
- **Testing & Quality:** Conducted rigorous cross-device testing to ensure consistent UI behavior, reducing production UI bugs by focusing on modular architecture.

PROJECTS

ICON Web Studio - Web-based IDE for ICON Blockchain | React, Context API, SCSS, icon-sdk.js

- Developed the UI for a browser-based IDE to write, deploy, and interact with smart contracts on the ICON blockchain.
- Integrated icon-sdk.js into a responsive frontend and organized complex blockchain operations into clear, guided steps for end users.
- Link: https://icon-web-studio.pages.dev/

Vendetta Game - On-chain Multiplayer Strategy Game (GangstaVerse, Sui Network) | React, TypeScript, Context API, SCSS

- Built frontend components for an on-chain multiplayer strategy game where players build and manage a criminal empire.

- Implemented state management using React Context API and TypeScript for predictable game flows and real-time on-chain updates.
- Link: https://vendettagame.xyz/

Multichain Tournament - ICON vs Arbitrum Blockchain Game (Gangwars Ecosystem) | React, TypeScript, Redux Toolkit, SCSS

- Developed UI for a semi-passive simulation game where on-chain entities battle to win rewards and in-game assets.
- Used Redux Toolkit for global state management to handle tournament states, leaderboards, and player data across ICON and Arbitrum networks.
- Link: https://tournament.playgangwars.com

LuklaGroceries - Full-Stack E-commerce | React, Context API, SCSS, Node, Express, MongoDB, Stripe

- Developed a complete full-stack e-commerce platform for online grocery shopping with product browsing, cart management, and order processing
- Built both frontend UI and backend REST APIs using MERN stack (MongoDB, Express, React, Node.js)
- Integrated Stripe payment API for secure transaction processing and implemented user authentication
- Deployed application with proper testing and documentation
- Link: https://www.luklamart.com.au

EDUCATION

M.Sc. in Data Science | Technische Universität Dortmund, Germany
Oct 2025 – *present (1st semester) | Dortmund, Germany

- Relevant topics: statistics, machine learning, data engineering, and scalable data processing (in progress).

Bachelor's in Computer Engineering | TU, Institute of Engineering, Purwanchal Campus
Nov 2015 – Dec 2019 | Dharan, Nepal

- Completed coursework in algorithms, data structures, software engineering, computer networks, and databases.