HARSH VARDHAN BISHT

FRONTEND ENGINEER | REACT, TYPESCRIPT & NEXT.JS

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Professional Summary

Frontend-focused Software Engineer with 5 years of experience building production applications using React, Next.js, and TypeScript. Experienced in creating responsive product interfaces, reusable component systems, financial workflows, and data-driven dashboards. Led a 6-engineer team and delivered features from technical design through production. Improved frontend performance by reducing network requests by 40–50% and initial client-side work by 30–40%. Also built AI-powered applications connecting natural-language requests with APIs and database operations. Interested in building products that combine thoughtful UI design with useful AI features.

Professional Experience

Lead Software Engineer **June 2021 – Present**
Huddle01 *Remote*

The Terminal – Trading & Derivatives Platform

- Led a 6-engineer team through technical design, implementation, and production delivery across trading, market data, accounts, rewards, and core product workflows.
- Built React, Next.js, and TypeScript application architecture supporting 10+ product workflows, with reusable components and consistent frontend patterns.
- Developed interactive financial interfaces using WebSockets and tRPC to present real-time token prices, market capitalization, and analytics.
- Reduced network requests by 40–50% and initial client-side work by 30–40% by eliminating request waterfalls and optimizing frontend/API interactions.
- Integrated Node.js APIs, Drizzle ORM, and tRPC to connect frontend features with backend services and application data.
- Contributed to growing the platform from launch to 1,000 users within two months.

Huddle Meet – Real-Time Communication Platform

- Led frontend architecture for meeting and audio-space products supporting experiences for 10,000+ daily active users.
- Built React and Next.js interfaces for participant grids, media controls, screen sharing, livestreaming, and recording using WebRTC and MediaSoup.
- Introduced a microfrontend architecture for livestreaming and recording, separating functionality into independently developed product areas.
- Improved loading and rendering performance using SSR, ISR, dynamic imports, and Zustand state management; delivered interfaces used by 8,000+ registered users.

Dashboards, Rewards & Node Tracking

- Standardized reusable React components across developer, personal, and business dashboards in a monorepo, reducing duplicated implementation across applications.
- Developed backend APIs using Node.js, Hono, and Drizzle ORM, with React Query for asynchronous data fetching and server-state management.
- Delivered a Testnet rewards platform end-to-end, reducing failed submissions by approximately 70% during peak traffic.
- Worked with Webpack and Vite to maintain frontend build and bundling workflows across product applications.

AI & Product Projects

AI Expense Tracker *React, TypeScript, LangGraph, SQLite, SSE*

- Built an AI-powered expense application that translates natural-language requests into database-backed operations, with SSE streaming execution updates to the interface.

Personal Calendar Assistant *TypeScript, Bun, LangChain, LangGraph, Google Calendar API*

- Built an assistant with custom tools to turn user instructions into Google Calendar actions, including event retrieval and meeting scheduling.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), SQL
Frontend: React, Next.js, HTML5, CSS3, Responsive UI
UI Engineering: Reusable Components, Component Architecture, Microfrontends, UI Consistency, State Management
State Management: Redux Toolkit, Zustand, Jotai, React Query
Rendering & Performance: SSR, ISR, Dynamic Imports, Code Splitting, Request Optimization
Backend & APIs: Node.js, Hono, REST APIs, GraphQL, tRPC, API Integration
Databases: PostgreSQL, SQLite, MongoDB, ClickHouse, Redis, Drizzle ORM, Prisma, Supabase
AI Integration: LangGraph, LangChain, LangSmith, RAG, CRAG, Tool Integration
Testing: Jest, React Testing Library
Build & Delivery: Webpack, Vite, AWS, Docker, Git, GitHub Actions, CI/CD, Vercel

Education

Kumaun University, Nainital 2018 – 2020
B.A. English

Ducat Institute of Technology, Delhi 2012 – 2015
Diploma in Computer & Web Designing