

Abhyuday

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Frontend developer with 3+ years of experience building web apps with Next.js, React, and TypeScript. Worked on large-scale frontends used by 500k+ users and helped take two startups from 0 to 1. Experience with Solana client integrations, modern UI tools, and real-time systems across the stack.

WORK EXPERIENCE

Frontend Developer (Web3 Hackerhouse)

Feb 2025 — Present

100xDevs

Noida, India

- Built **Next.js/React Web3** interfaces integrating **Solana wallets** and **Anchor clients** for on-chain interactions.
- Implemented **PDA derivation** and program account fetching in the frontend using **Anchor IDL** and `@solana/web3.js`.
- Constructed multi-instruction **Versioned Transactions** with **priority fees** and **compute budget tuning**.
- Developed **DeFi transaction flows** (deposit, withdraw, borrow, repay) with clear pending states and error handling.
- Implemented **health factor**, **liquidation price**, and **APY calculations** from on-chain **BN account data**.
- Used **TanStack Query** and custom hooks to manage **RPC calls**, wallet state, and **on-chain data caching**.
- Built real-time trading charts using **TradingView Lightweight Charts** with **REST + WebSocket** market data.
- Designed responsive **Web3 dashboards** using **Next.js**, **Tailwind**, **ShadCN**, and **Material UI**.
- Developed **Anchor smart contracts** using **PDAs**, **account constraints**, and custom error codes.
- Wrote **Jest** test cases for program logic and transaction workflows.

Frontend Developer

Oct 2023 — Jan 2025

Webovista

Remote, Germany

- First engineer at the startup, responsible for building the entire front-end codebase and development workflow, taking the product from **0 → 1**.
- Architected and developed interactive web applications using **Next.js**, **React**, and **Three.js**.
- Set up the project repository, folder structure, coding standards, and scalable component architecture.
- Collaborated with **Figma designers** to convert product designs into responsive, reusable UI components.
- Built **interactive 3D configurators** using **Three.js** for real-time product visualization.
- Optimized 3D assets using **glTF workflows** and **Draco compression**, reducing payload size by **90%** and significantly improving load performance.
- Implemented **Redux** for global state management across complex UI interactions and configurator states.
- Integrated **Stripe payment gateway** to enable secure checkout and payment processing.
- Implemented **dynamic imports**, **lazy loading**, and **code splitting** to reduce initial bundle size and improve performance.
- Migrated components to **Server-Side Rendering (SSR)** with **Next.js** to improve SEO and page load times.
- Integrated backend services through **REST APIs** and handled **webhooks** for payment and order events.
- Implemented animations and UI transitions using **GSAP** and **Framer Motion**.
- Deployed production applications on **Vercel** and managed optimized media delivery using **ImageKit** CDN.
- Collaborated with 3D designers to integrate optimized **GLTF** models and debug rendering/performance issues.
- Participated in client meetings to gather requirements, explain technical solutions, and align product development with business goals.

MERN Stack Contract

March 2023 — May 2023

Moctech PVT. LTD

Bhopal, India

- Spearheaded frontend development, building **scalable, production-ready** features while collaborating with backend engineers to implement complex functionality.
- Managed and mentored two in-house developers, overseeing task delegation, code reviews, and overall delivery quality.
- Partnered directly with the founder in daily discussions to define feature scope, set priorities, and align technical execution with business objectives.
- Owned sprint planning and timeline execution, ensuring aggressive deadlines were met during a high-growth phase.
- Demonstrated exceptional commitment during critical release cycles, working extended hours to guarantee on-time delivery and operational continuity.

- Mentored 150+ students with a strong emphasis on **frontend engineering**, guiding them in building **scalable, responsive, and production-ready** user interfaces.
- Provided hands-on support with **modern component libraries** and **design systems**, helping students structure **reusable UI architectures**.
- Trained students in implementing **advanced animations** and **interactive experiences** using libraries such as **GSAP** and **Matter.js**, improving their understanding of **motion design** and **physics-based interactions**.
- Conducted in-depth **frontend code reviews** and live debugging sessions focused on **performance optimization**, **clean component patterns**, and **UI/UX best practices**.

PROJECTS

Car-Configurator - Web Application

<https://wrap.abhyuday.dev/customize?carType=suv>

- Architected a production **Next.js 14 App Router** application with strict **server/client separation**, centralizing pricing logic and payment orchestration on the server to protect secrets and minimize client bundle size.
- Designed a **stateless URL-driven architecture** where all configuration state is derived from **search parameters**, enabling deterministic deep links, **SSR parity**, and zero client-side state stores.
- Built a declarative, **data-driven product engine** supporting dynamic service variants, tiered pricing, and constraint logic without component refactors.
- Implemented server-side **Stripe Checkout** with structured metadata embedded in **payment_intent**, ensuring transaction-level traceability between payments and fulfillment.
- Developed a real-time **WebGL vehicle configurator** using **React Three Fiber** and **Three.js** with 80+ PBR material variants; optimized performance via **memoized materials** and mesh-level targeting.
- Created a scalable UI system with **Material UI (MUI)**, including custom theming and responsive component architecture.

BetTheCandle - Web Application

https://github.com/abhyuday911/Fullstack_trading-platform-exness

- Implemented a live **candlestick chart** in **Next.js 15** with **TradingView Lightweight Charts**, merging **historical REST data** and **real-time WebSocket ticks** to update active candles client-side without reloads.
- Architected a real-time cryptocurrency paper trading platform ingesting live tick data from the **Binance WebSocket stream**, decoupling ingestion from persistence via a **Redis pub/sub + queue pipeline** into **TimescaleDB**.
- Designed and provisioned a **TimescaleDB time-series schema** using **hypertables** and four continuous aggregate views (1m, 15m, 1h, 1d), enabling sub-millisecond **OHLCV queries** without runtime aggregation.
- Built a multi-process backend in **TypeScript** on **Bun**, isolating the market data poller, queue worker, **REST API**, and **WebSocket broadcast server** into independent processes for fault isolation and horizontal scalability.
- Developed a leveraged paper trading order engine with **JWT-based authentication**, bcrypt-hashed credentials, **Zod-validated API contracts**, and **Redis-cached price lookups** to eliminate database round-trips during order execution.

Solana DeFi Borrow/Lend Frontend (Next.js + Jupiter Lend)

<https://jupiter.abhyuday.dev>

- Engineered a **Solana DeFi interface** integrating the **Jupiter Lend protocol** (@jup-ag/lend) using **custom React hooks** (useOperate, usePosition) to fetch **on-chain position state** and construct, sign, and broadcast **Versioned Transactions** with **compute budget optimization** via **ComputeBudgetProgram** using @solana/web3.js.
- Architected a **multi-wallet connection layer** on **Solana Mainnet** using @solana/wallet-adapter-react, lazy-loading **WalletMultiButton** with **next/dynamic (SSR disabled)** to prevent hydration mismatches and implementing a custom themed skeleton fallback aligned with the application's dark-mode design system.
- Implemented **real-time DeFi risk analytics** by deriving **net APY**, **liquidation price**, **price-drop-to-liquidation percentage**, and **collateral utilization ratio** from **BN.js on-chain data**, exposing a dynamic **4-tier health indicator** (Safe, Moderate, Risky, Liquidated) with animated progress bars.
- Built a **modal-driven transaction interface** in **Next.js 16 / React 19** supporting deposit, withdraw, borrow, and repay flows for the **Jupiter Lend protocol**, structured with a **layered provider architecture** (SolanaProvider → ThemeProvider → LayoutProvider) and integrated **Sonner notifications** with **Tailwind CSS v4** for a cohesive dark-mode DeFi UI.

Gilque Landing Page - (Matter.js Physics-Engine)

<https://gilque.netlify.app/>

- Built a responsive **Matter.js physics interface** with runtime **mobile/desktop detection** (`window.orientation`) that dynamically loads device-specific simulations with optimized world bounds, canvas sizes, and constraint anchors.
- Implemented a **physics-composited UI architecture** using a transparent **Matter.js canvas** beneath a **pointer-events: none** HTML layer, enabling semantic UI elements to coexist with an interactive physics engine without event conflicts.
- Designed **interactive content cards** as **rigid bodies** suspended by **spring constraints**, creating **pendulum-style motion** and a **slingshot projectile mechanic** to increase user interaction.
- Developed **GSAP-powered SVG mascot animations** with cursor-tracking pupils, coordinated hover timelines.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Rust
- **Frontend Frameworks & Libraries:** React, Next.js, Redux, Zustand, TanStack Query, Material UI, shadcn/ui, React Hook Form
- **Animation & Interactive UI:** GSAP, Framer Motion, Lottie, Matter.js, Particles.js
- **Web & Platform:** REST APIs, JWT Authentication, NextAuth, Vercel Deployment
- **Web3 / Solana:** Solana Web3.js, Anchor Framework, Wallet Adapter Integration & Customization, RPC Calls, SPL Token Program, Jupiter Lend/Borrow Integration, Smart Contract Deployment (Devnet)
- **Practices:** Performance Optimization, Component Architecture, Responsive UI Development

EDUCATION

Lakshmi Narayan Collage Of Technology

Bachelor's of Science, Computer Science [Artificial Intelligence and Machine Learning]

Bhopal, India

Dec 2020 — Jul 2024