

Ankit Singh

Software Engineer | Fullstack · Web3 · Blockchain Forensics

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience building production frontends with **React.js**, **Next.js**, **TypeScript**, and **Tailwind CSS**, specializing in **Web3**, **blockchain forensics**, and **real-time data dashboards**. Proven record of shipping investigative tooling, ICO platforms, and AI-powered web applications used by analysts, compliance teams, and end users.

EDUCATION

▷ **Lovely Professional University** 2020 – 2024
B.Tech in Computer Science and Engineering CGPA: 7.45

WORK EXPERIENCE

- Software Engineer, Hornet Decentraretech Pvt Ltd.** (Apr 2025 – Present) • *Crypto forensics and on-chain intelligence platform*
 - Developed and maintained **React.js / TypeScript** frontend for a blockchain forensics platform, enabling investigators to trace on-chain transactions, wallet clusters, and entity connections.
 - Built interactive transaction-graph visualizations using **React Flow** with **Dagre/ELK** auto-layout, reducing time-to-insight on multi-hop fund flow investigations.
 - Designed analyst dashboards with **Recharts** and **ECharts**, integrating REST and WebSocket data feeds from indexed blockchain datasets across Ethereum, Bitcoin, and Solana.
 - Implemented **geo-IP heatmaps** and **PDF/PNG case-report exports** (jsPDF), turning raw on-chain activity into stakeholder-ready artifacts.
 - Applied **frontend security best practices**: phishing-resistant wallet connection flows, network/chain-ID validation, secure transaction state handling, and XSS mitigation.
 - Collaborated with blockchain analysts, backend engineers, and compliance teams to translate complex forensic requirements into clear, actionable UI workflows.
- Software Developer, Blocktech Brew** (Apr 2024 – Apr 2025) • *Web3 product studio (crypto exchange, ICO, and wallet integrations)*
 - Built and integrated **crypto wallet authentication using Thirdweb**, enabling secure wallet connection, signature-based login, and user onboarding across EVM chains.
 - Developed a responsive **ICO (Initial Coin Offering) dashboard** with real-time blockchain interaction, token sale tracking, and live transaction status updates.
 - Implemented **Web3 features** for smart-contract interaction using **ethers.js**: read/write calls, transaction handling, gas estimation, and event subscription.
 - Designed and shipped modern UI with **Tailwind CSS**, ensuring mobile-first, cross-device responsiveness across desktop, tablet, and mobile breakpoints.
 - Built scalable, SEO-friendly frontends with **React.js**, **Next.js**, and **Vite**, leveraging Vite's HMR and optimized bundling to cut local build times significantly.
 - Developed and maintained the **crypto exchange frontend**, focusing on order-book performance, real-time price feeds, and clean UX for trading flows.
 - Partnered with backend and blockchain engineers to ensure smooth integration between the frontend and decentralized systems (smart contracts, indexers, RPC nodes).

KEY PROJECTS

- Echo — AI-Native Team Chat Platform** 🚀 🔄 *Next.js 15, TypeScript, FastAPI, PostgreSQL, Redis, WebSockets, OpenAI*
 - Built a real-time team chat platform with servers, channels, and **WebSocket-based messaging**, fanned out across worker processes via **Redis pub/sub** for horizontal scaling.
 - Engineered **4 AI capabilities** into the message flow: pre-broadcast auto-moderation, smart reply suggestions, an @AI chatbot member, and one-click channel summarization.
 - Implemented **ephemeral prompt caching** to keep LLM latency and cost low under bursty traffic; backed by an async **FastAPI + SQLAlchemy** stack on PostgreSQL.
- Hornet — Blockchain Forensics & On-Chain Investigation Platform** *React 18, Vite, React Flow, MUI, Redux Toolkit, Dagre, ELK, Recharts, ECharts, jsPDF*
 - Designed the frontend for an on-chain investigation workspace used by analysts and compliance teams to trace fund flows, cluster wallets, and produce case artifacts.
 - Built **auto-laid-out transaction graphs** (React Flow + Dagre/ELK), drag-and-drop dashboard widgets, and **geo-IP heatmaps** layered over a world map.
 - Shipped **one-click PDF/PNG case-report export**, replacing CSV dumps and screenshots with stakeholder-ready investigative artifacts.
- ACraft — Generative AI Image Pipeline** 🚀 🔄 *Next.js, JavaScript, Gemini Multimodal, Vercel*
 - Built an AI image generation app that turns a single reference photo into stylized **4K artwork** across **30+ style presets** (portrait, cyberpunk, fantasy, sci-fi, abstract).
 - Implemented **auto prompt engineering** with the Gemini multimodal API, removing the manual trial-and-error prompting loop for end users.
 - Delivered a one-shot user flow (upload, pick a style, download) deployed on Vercel with edge-optimized image delivery.
- Quorum — Web3 DAO Governance Frontend** 🚀 🔄 *Next.js 14, JavaScript, Thirdweb, ethers.js, Tailwind CSS, NextUI, Vercel*
 - Shipped a governance frontend on the **Uniswap (UNI) delegation graph** that opens proposal submission to small holders, removing the historical 10M-vote whale barrier.

- Implemented public proposal drafting, delegate-rally sharing, and a **400-vote surfacing threshold** that auto-promotes proposals to the main feed.
- Integrated smart-contract reads/writes via **ethers.js + Thirdweb** for transparent, on-chain proposal state and vote accounting.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), HTML5, CSS3, SQL
- **Frontend:** React.js, Next.js (13/14/15), Vite, Redux Toolkit, React Flow, Tailwind CSS, MUI, NextUI, Recharts, ECharts, Framer Motion
- **Web3 / Blockchain:** Ethers.js, Thirdweb, Wallet Connect, MetaMask integration, ERC-20 / ERC-721, smart-contract interaction, EVM chains (Ethereum), Bitcoin, Solana
- **Backend / APIs:** REST APIs, WebSockets, FastAPI (basic), Node.js, PostgreSQL, Redis (pub/sub), SQLAlchemy
- **Forensics & Intelligence Platforms:** Arkham, Breadcrumbs, Crystal Blockchain, Chainalysis-style investigation workflows, UTXO and account-based chain explorers, Uptime Kuma
- **Tooling & DevOps:** Git, GitHub, Vercel, Ubuntu/Linux, shell scripting, cron-scheduled analytics jobs, backup & data-retention workflows
- **Security:** Phishing-resistant wallet UX, network/chain-ID validation, secure transaction handling, XSS / input-validation hygiene
- **Soft Skills:** Cross-functional collaboration, analyst/stakeholder communication, requirement translation, code review, ownership

EXTRACURRICULAR ACTIVITIES

- Participated in the **Crypto CrimeCon Online Hackathon 2024**, focused on tracking suspicious wallet movements across multiple blockchains.
- Active member of Web3 and cybersecurity communities on Discord and Telegram, engaging in discussions on blockchain forensics, exploits, and regulatory developments.
- Contributor to open-source documentation and knowledge-sharing blogs on blockchain UX and data visualization.
- Volunteered with a local NGO's **digital literacy campaign**, teaching students safe internet practices and awareness of phishing and online fraud.
- Personal interests: **travel photography, distance running, and football.**