

# BHAVYA JAIN

bhavayaj8525@gmail.com | [Github](#) | [LinkedIn](#) | [Portfolio](#)

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Senior Web3 Frontend Engineer specializing in **DeFi protocols** and decentralized applications. 5+ years building production dApps with React, Next.js, TypeScript, and modern Web3 stack (wagmi, viem, RainbowKit, ethers.js). Extensive experience across **Ethereum, Solana**, and L2 ecosystems with focus on **account abstraction** (ERC-4337), **cross-chain** bridging, and high-performance UX. Shipped features for protocols handling millions in TVL across DEXs, lending platforms, yield vaults, and NFT marketplaces.

## Technical Skills

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**Web3 core:** ethers.js, viem, wagmi, RainbowKit, Web3.js, EVM

**Account Abstraction:** ERC-4337, Smart Accounts, Paymaster Integration, Gasless Transactions

**Frontend:** React, Next.js 14+ (App Router, React Server Components), TypeScript, Vite, Tailwind CSS, HTML5, CSS3

**State & Data:** TanStack Query, Redux, Zustand, React Context, The Graph (Subgraphs), Jotai

**Token Standards:** ERC-20, ERC-721, ERC-1155, ERC-4626, ERC-4337, EIP-712, EIP-6963

**Blockchain Networks:** Ethereum, Solana, Base, Polygon, zkSync, Optimism, Arbitrum, Linea, Manta

**Cross-Chain:** LayerZero SDK, Wormhole, Multi-chain deployments

**Web3 Tools:** Etherscan, WalletConnect, MetaMask, Tenderly, Hardhat, Foundry, The Graph

**Backend & Infra:** Node.js, Express.js, GraphQL, PostgreSQL, MongoDB, AWS, Docker, Vercel, CI/CD

**Testing:** Jest, Cypress

**Tools:** Git, GitHub, GitLab, VS Code, Gnosis, Claude, Copilot

## Open Source Contributions

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### cowprotocol/cowswap

- [#7213](#) — Fixed **stale Jotai atom state** in TradeWidgetModals that blocked the order progress modal from opening when triggered from account pages after navigation.
- [#7182](#) — Enhanced account proxy link in widget mode to open in a new tab using `isInjectedWidget()`, preserving the embedded widget context.
- [#7171](#) — Optimized conflicting CSS rules in CurrencyArrowSeparator that caused the swap arrow to shimmer on hover during quote loading.

## Professional Experience

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### Senior Frontend Engineer (Contract) at [Fiduwork](#) | 07/2025 - present

Web3-enabled freelance marketplace | Hybrid Web2/Web3 payment infrastructure

- Architected production payment system from zero, integrating Stripe (Web2) and **on-chain escrow smart contracts (Web3)**.
- Built wallet connection infrastructure using RainbowKit and wagmi v2, supporting MetaMask, WalletConnect, and Coinbase Wallet with seamless **multi-chain switching** across Ethereum, Base, and Polygon networks.
- Developed gas-optimized smart contract interaction layer using ethers.js and wagmi with transaction batching and efficient contract call patterns to minimize on-chain operations and reduce user transaction costs.
- Implemented comprehensive error handling and recovery flows for wallet rejections, network failures, and transaction timeouts, maintaining low support volume through intelligent retry logic and clear user status messaging.
- Created reusable React component library with modular Web3-specific components covering wallet connection, token approvals, transaction signing, and network detection, enabling rapid feature development and consistent UX patterns.
- Designed **DAO-based dispute resolution** interface with token-weighted voting, automated arbitration workflows, and community reward distribution for client-freelancer conflicts.
- Optimized payment completion funnel through real-time gas estimation, predictive fee modeling, and **batch transaction capabilities**, achieving minimal transaction abandonment and high user conversion.

- Contributed to smart contract integration and escrow workflow design, delivering transparent trust-minimized transactions with automated fund release, milestone tracking, and dispute escalation mechanisms.

## Senior Software Engineer at [MahaDAO](#) | 02/2024 - 05/2025

- Architected and delivered responsive Web3 interfaces using React, TypeScript, and Tailwind CSS for DeFi protocols, owning the entire frontend architecture and establishing coding standards across the engineering team.
- Led integration of **ODOS swap routing** with custom liquidity visualization engine, enabling users to discover 12-15% better pricing across aggregated DEX routes while reducing swap failure rates through intelligent slippage and deadline management.
- Designed and implemented **ERC-4626** vault management system covering deposits, withdrawals, yield analytics, and Merkle-based reward distributions, handling complex vault strategies and multi-token accounting.
- Spearheaded migration to Next.js 14+ with App Router and React Server Components, reducing client-side JavaScript by 40% and **page load times by 35%**, establishing new architectural patterns adopted across all protocol frontends.
- Built end-to-end Solana dApp integration for Raydium CLMM, architecting **Phantom wallet** connection, Anchor program interactions, and real-time pool state synchronization, enabling the protocol's first multi-chain expansion.
- Pioneered **ERC-4337 account abstraction** implementation with custom paymaster integration, eliminating gas barriers for new users and establishing reusable smart account patterns for future protocol features.
- Owned **cross-chain infrastructure** between Base and Solana using LayerZero SDK, architecting bridge monitoring, transaction recovery mechanisms, and user status tracking.
- Established multi-chain deployment framework across **Ethereum, Linea, zkSync, Optimism, and Manta**, creating automated testing pipelines and deployment workflows that reduced release cycles timelines.

## Software Engineer at Ryze | 04/2022 - 01/2024

- Built core DeFi platform frontend modules covering **pricing engines, liquidity management, exposure tracking**, and portfolio monitoring, handling complex financial calculations and real-time multi-asset position updates.
- Designed end-to-end transaction flows for minting, burning, and collateralization with comprehensive error handling, status tracking, and confirmation patterns, achieving **95% successful transaction completion rates** through careful UX design.
- Developed **real-time interactive charting system** with market trend dashboards using data visualization libraries, enabling users to analyze risk/reward metrics and make informed decisions across volatile DeFi market conditions.
- Optimized frontend performance through systematic code splitting, lazy loading, and route-level bundling, **reducing page load times by 30%** and improving Time to Interactive metrics across mobile and desktop platforms.
- Delivered mobile-first responsive interfaces using React, TypeScript, and Tailwind CSS with continuous UX improvements driven by user behavior analysis, increasing engagement by 25% and reducing bounce rate by 20%.
- Implemented in-house automation tools and smart assistance features reducing support requests by 25%, while maintaining scalable MERN architecture supporting rapid feature delivery across the platform.

## Frontend Engineer at Deqode | 01/2020 – 03/2022

- Architected and deployed Web3 frontends integrating Ethers.js, The Graph, and **EIP-712 signature support**, enabling gasless transactions and seamless wallet connectivity to improve accessibility for end-users.
- Built protocol vesting UIs backed by **OpenZeppelin proxy contracts** and developed interfaces for complex DeFi features including derivatives-based AMMs and perpetual futures trading systems.
- Revamped a fintech DApp v2 using Next.js (SSG/SSR), React Query (TanStack Query), and Apollo GraphQL, **boosting page load speeds by 70%** via Vercel CDN integration and static asset caching.
- Designed **custom blockchain UI architectures** to visualize transaction security and data flows, improving reliability perception by 30% and contributing to a 25% increase in user engagement across client-facing projects.
- Extended **multi-wallet support** and off-chain signature storage while maintaining an 85% on-time delivery rate building scalable frontend solutions in TypeScript across the MERN stack.