

Ketan Kulkarni

Blockchain Engineer

Solidity smart contracts, DeFi protocols & Web3 applications · Open To Offers

Remote, India · [linkedin.com/in/b481526b](https://www.linkedin.com/in/b481526b)

SKILLS

Solidity, JavaScript, TypeScript, Go, Cosmos SDK, React, Node.js, Hardhat, OpenZeppelin, Viem, Wagmi, Ethers.js, Web3.js, Smart Contract Security

ABOUT

Blockchain Developer with 5+ years of experience specializing in Solidity smart contracts, DeFi protocols, and Web3 applications. Strong expertise in ERC-20, ERC-721, ERC-1155, TRC-20, TRC-721, staking, ICOs, launchpads, CEX/DEX, and cross-chain governance. Hands-on experience building and deploying Layer-1 blockchains using Cosmos SDK and Cosmos/EVM, including staking, governance, and validator economics. Current work centers on signature-based execution (Permit2 / EIP-712) and pre-deployment smart contract security review, alongside TypeScript backends and React frontends.

EXPERIENCE

Blockchain Engineer · MTransform

May 2026 – Present

Remote, India

Designed a stateless batch execution contract collapsing multi-step flows into a single EIP-712 signature bound to Permit2 witness data. Built a UUPS-upgradeable concentrated-liquidity position manager for Uniswap V3 with an off-chain rebalancer bot. Led pre-deployment security reviews producing severity-ranked findings and reproduction test suites. Architected a chain-agnostic multi-wallet connection layer (EVM + TRON). Shipped React/TypeScript/Tailwind DEX trading interfaces using Viem, Wagmi, and Jotai.

Senior Blockchain Developer | Full-Stack · EspSofttech Pvt. Ltd

Mar 2023 – May 2026

Remote, India

Led the INFI Multichain LaunchPad & CDEX project, designing Solidity contracts for presales, ICOs, staking, vesting, DEX swaps, and launchpad logic. Designed custom AMM and arbitrage logic. Architected and launched a production EVM-compatible Layer-1 by forking cosmos/evm (devnet to mainnet). Designed a permissioned Cosmos blockchain with NFT-based validator authorization. Owned the project as sole technical decision-maker; built Node.js backend services and React frontend integrations.

Blockchain Developer · Knowbility Solutions

Jan 2023 – Feb 2023

Remote, India

Developed a web-based project for token minting and staking (K Coin). Built a Supply Chain Management application for medicines to detect counterfeiting.

Blockchain Developer / Business Analyst · Solulab

Mar 2021 – Dec 2022

Remote, India

Designed and developed ERC-721 NFT smart contracts with royalty distribution mechanisms for the Toekenz Marketplace. Implemented minting, listing, secondary sales, and automated royalty payout logic for a multichain NFT marketplace. Built a multichain deployment architecture supporting Ethereum and Binance Smart Chain with wallet connection flows and parental control restrictions. Designed backend APIs for NFT metadata tracking and marketplace order management.

EDUCATION

G.H. Raisoni College of Engineering · Bachelor's, Electronics and Telecommunications

Nagpur

Jun 2010 – Jun 2014

PROJECTS

Signature-Bound Batch Executor

Solidity · Hardhat · OpenZeppelin · Permit2 · EIP-712 · CREATE2

Collapsed multi-step swap and fee flows into a single EIP-712 signature bound to Permit2 witness data, with a custom fee structure and deterministic CREATE2 addresses across chains. Delivered a documented security review with severity-ranked findings and Hardhat reproduction tests.

Concentrated Liquidity Manager

Solidity · Uniswap V3 · UUPS

UUPS-upgradeable position manager for Uniswap V3 with an off-chain rebalancer bot, role-gated funding and withdrawal, configurable safety bounds, and emergency exit paths resilient to locked positions.

Cross-Ecosystem Wallet Connector

React · TypeScript · Viem · Wagmi

Reusable modal and adapter layer allowing a dapp to hold simultaneous connections to EVM and TRON wallets for cross-ecosystem swaps.

INFI Multichain LaunchPad & CDEX

Solidity · Web3.js · Ethers.js

Designed, developed, tested, and deployed Solidity smart contracts for DeFi applications including token presales, ICOs, staking, vesting, DEX swaps, and launchpad logic. Developed cross-chain governance and multichain swap mechanisms integrating with frontend and backend using Web3.js and Ethers.js.

InvertX Cross Chain Swap

Solidity · Web3.js · Ethers.js

Designed, developed, tested, and deployed Solidity smart contracts for token presales and DEX cross-chain swaps, integrating with frontend and backend using Web3.js and Ethers.js.

Anantra Blockchain

Cosmos SDK · Cosmos/EVM · Go

Architected and launched a production EVM-compatible Layer-1 blockchain by forking cosmos/evm, delivering devnet to testnet to mainnet. Customized staking, validator economics, and unbonding logic including validator-specific and delegator-specific unstaking periods.

Custom Permissioned Blockchain (Cosmos SDK v0.53 Fork)

Cosmos SDK · Go

Designed and implemented a permissioned Cosmos blockchain with NFT-based validator authorization, where validator rights are granted via on-chain NFT ownership. Customized chain identity, governance, and economic parameters for controlled validator onboarding.

Toekenz Marketplace

Solidity · ERC-721

Designed and developed ERC-721 NFT smart contracts with royalty distribution mechanisms for a family-focused, child-safe multichain NFT marketplace. Implemented minting, listing, secondary sales, and automated royalty payout logic, supporting Ethereum and Binance Smart Chain.