

Prashant Yadav

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SUMMARY

Senior Software Engineer with 4+ years of overall experience, including 3+ years as a **Blockchain Engineer** specializing in both **public (EVM-based)** and **private (Hyperledger Fabric)** blockchain systems. Expertise in **designing, developing, and maintaining scalable smart contract** solutions using **Solidity** and **Hardhat**. Skilled in implementing **Layer-2 solutions, tokenization of real-world assets, and DeFi** systems including **staking, launchpads, network bridging, arbitrage, flash loans, AMMs, multisig security, Merkle proofs, and wallet integrations**.

SKILLS

Blockchain: Solidity, Hardhat, Hyperledger Fabric, ERC token standards: ERC-20, ERC-721, ERC-721A, ERC-1155, ERC-4907: Rental NFTs, ERC-6059: Nested NFTs, ERC-4337: Account Abstraction, ERC-6551: Token-Bound accounts, ERC-3643 (T-Rex) and ERC-1400.

Web3 & Infra: Web3.js, Ethers.js, Remix, WalletConnect, IPFS, Mocha(Chai).

Front-end & Back-end: GoLang, Node.js, Express.js, ReactJs, JavaScript, PHP (Laravel, CodeIgniter).

DevOps/Tools: Docker, Git, Bash, AWS (CI/CD Pipeline, S3 Bucket), Kafka.

Database: MySQL, Navicat, MongoDB(basic).

EXPERIENCE

Senior Software Engineer

CDN Software Solutions

August 2022 – February 2025, India, Indore

- Developed and deployed **95+ smart contracts** across **DeFi, staking, ICOs, NFT marketplaces, and gaming projects** with **95–98% test coverage** and gas-optimized logic.
- Implemented **complex financial flows** like **amortization schedules, balloon payments, and profit-sharing models** using custom smart contracts for **loan repayments and fund distribution**.
- Contributed to **Web3 wallet integration using Wagmi and MetaMask**, ensuring smooth wallet connectivity and reliable blockchain interactions within the React-based front-end.
- Enhanced **escrow, staking, and token release mechanisms**, improving transactional security and platform performance by 30% across multiple dApps.

Software Engineer

Samosys Technologies

September 2020 – May 2022, India, Indore

- Developed and maintained **REST APIs** and full-stack features in Node.js and PHP for a product-based platform with over **350K+ active users**, optimizing app performance and reliability.
- Collaborated on mobile application **backend api integration, resolving critical bugs** and improving data handling for seamless user experience.
- Initiated blockchain development journey by writing and **integrating NFT smart contracts** with Node.js services, laying the foundation for Web3 functionality.

PROJECT

RACE – DeFi platform for asset tokenization

CDN Software Solutions • raceecosystem.com/

- Developed and deployed **80+ Solidity smart contracts** to tokenize physical assets, enable **decentralized fundraising**, and automate **loan disbursements** backed by **real estate collateral**.
- Engineered complex financial mechanisms including **debt vs equity structuring, SPV-based distribution, and profit-sharing using waterfall models, hurdle rates, and carried interest**.
- Built custom **escrow contracts** to secure funds, automate conditional repayments, and enforce investor protection with fully audit-able flows.
- Replaced traditional finance logic with on-chain equivalents for **amortization, balloon payment schedules, and capital return modeling**, validated through Excel-based prototypes.
- Achieved **98%+ test coverage**, implemented advanced gas optimisations (**25%+ gains**), and enforced best security practices using **OpenZeppelin standards**.

Sastana Art & Casino – NFT Marketplace & Gaming Token Integration

CDN Software Solutions • www.cdnsolutionsgroup.com/NFTDigitalSignage_st/#/

- Built and deployed **5+ Solidity smart contracts** enabling NFT buying, selling, and rental flows with **95%+ unit test coverage**.
- Implemented **Wrapped NFT logic** to support time-bound leasing of digital assets, boosting marketplace utility.
- Developed **escrow-based trading logic**, holding NFTs during sale transactions and automating ownership transfer upon payment.
- Created and integrated an **ERC-20 token** for seamless casino game-play transactions across the platform.

Tokenomics – Cliff & Vesting-Based Token Distribution Platform

CDN Software Solutions

- Developed and deployed **2 critical smart contracts** (ERC-20 token & vesting contract) with support for **cliff periods, monthly unlocks**, and **multi-signature release control**.
- Built a React-based front end with **Wagmi & Web3Js**, integrating real-time vesting data and secure admin operations across **6+ departments** (e.g., airdrops, liquidity, partners).
- Implemented full smart contract interaction logic for whitelisted addresses, achieving **98%+ test coverage**, optimized gas usage, and passed security audits with a **99%+ success rate**.

YRACE – Token Staking platform

CDN Software Solutions • cdnsolutionsgroup.com/YRace/

- Designed and deployed **staking smart contracts** for YRace token, supporting fixed APY rewards ranging from x% to y% and lock-in periods from X to Y days.
- Developed a full-stack staking interface using **React and Wagmi**, enabling real-time interactions with on-chain contracts and reducing transaction time by **30%**.
- Integrated with **MetaMask, WalletConnect**, and other wallet providers for seamless Web3 authentication and staking, and improving user experience and modular contract structure.

AngelDust LaunchPad & DEX

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- Designed and deployed smart contracts for token launches, **DEX exchanges, and liquidity pools**, enabling decentralized fundraising with private and public sale support.
- Built a **tipping contract** with dynamic **fund-splitting logic**, handling secure contribution across multiple stakeholders with 100% automated.
- Developed marketplace functionalities for NFTs using **ERC-721, ERC-4907, and ERC-20 standards**, ensuring smooth buy/sell and temporary asset rentals.
- Improved smart contract gas efficiency by **~15%** and ensured secure deployment, contributing to platform stability and scalability.

Enriched Academy

Samosys Technology Pvt. Ltd • www.enrichedacademy.com/

- Developed and contributed to **Enriched Academy**, a financial education platform serving **350k+ Canadian users**.
- Fixed **critical bugs**, created **30+ APIs**, and implemented **new front-end and back-end functionalities**, improving **platform speed**.
- Developed **real-time financial simulation tools** to help users **analyse their investments and optimize strategies** for better outcomes.
- Improved the **course enrollment process**, ensuring **seamless onboarding for new users**.

OMGee & Teleboutik

Samosys Technology Pvt. Ltd • omgee.com.au/au

- Developed and contributed to **e-commerce platforms** with **50,000+ active users**, ensuring **smooth and secure product transactions**.
- Created **50+ APIs** and built **end-to-end functionalities**, optimizing **checkout processes** and reducing **cart abandonment rates**.
- Integrated **secure payment gateways** to support **multi-currency transactions**, increasing **international customer engagement**.

Dragon Bank & Fabulook

Samosys Technology Pvt. Ltd • www.dragonbank.com/

- Developed and contributed to **Dragon Bank**, a financial literacy app with **20,000+ users**, and **Fabulook**, an e-commerce fashion app with **5,000+ users**.
- Designed and optimized **30+ APIs** to facilitate **seamless real-time transactions**.
- Designed an **interactive savings and spending model** for **Dragon Bank**, helping children learn **practical financial habits**.
- Enhanced **Fabulook's vendor onboarding process**, leading to **a increase seller sign-ups and improved APIs efficiency**.

EDUCATION

Bachelor of Engineering

Sushila Devi Bansal College of Technology • 2020 • 7.47

- **Academic Projects:** Developed a **Handicraft Shopping Website** for buying and selling handmade products using Core PHP, MySQL, HTML, and CSS. Also helping to built an **Online Test Portal** for aptitude tests using Java, MySQL, and JavaScript as a team project.
- **Achievements:** Won 1st prize in a college cricket tournament in 2018, 2nd prize in the Treasure Hunt event in 2017, and 2nd prize in the PubG tournament in 2017.

CERTIFICATIONS

Industrial Training & Programming Languages

- 75 days Industrial Training in **PHP and PHP Framework CodeIgniter and Laravel** from Unitel Works Wireless in 2019.
- 90 days of **Programming Languages Training in C, C++, PHP** from Progressive Institute in 2018.