

Prabal Pratap Singh

Senior Blockchain Engineer | Solidity, DeFi and Full Stack

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SUMMARY

Senior blockchain engineer with 6+ years of experience, including 4 years of production Solidity on Ethereum, Base, Arbitrum, Polygon and Robinhood Chain: 15+ DeFi contracts holding \$2M+ TVL with zero incidents, Uniswap V4 LP automation (CopyPool, live on Base) and MPC wallet platforms. Full stack in TypeScript; 10 hackathon wins.

HIGHLIGHTS

- Lead CopyPool, a live Uniswap V4 LP-automation product on Base mainnet: 90 automations running, \$28.5K fees earned for LPs
- Shipped 15+ production Solidity contracts holding \$2M+ TVL with zero security incidents; Foundry fuzz and invariant tested
- 10 hackathon wins across ETHGlobal, Encode Club, ETHIndia and Polygon; Polygon Guild Lucknow lead for 700+ developers

EXPERIENCE

Full Stack Blockchain Lead, Warlands (Remote)

Oct 2025 – Present

- Architected CopyPool (copypools.com), live Uniswap V4 LP automation (auto-range, compound, exits): 90 automations running, \$28.5K fees earned
- Deployed upgradeable V4 automation contracts live on Base mainnet, covered by Foundry fuzz and invariant tests
- Cut gas costs by about 30% and reviewed contracts with Slither and Echidna before each release
- Built Ponder indexers and backend monitors that trigger on-chain automation and feed the Next.js dashboards; own architecture, security and deployment

Full Stack AI / Blockchain Lead, OrzenHQ (Remote)

May 2026 – Sep 2026

- Led full stack AI and blockchain engineering across Web3, AI and automation products, owning contract, API and deployment decisions
- Built LLM agents into product features and internal developer tools for AI-assisted blockchain workflows
- Designed wallet flows, transaction systems and on-chain infrastructure for production apps

Senior Blockchain Developer (Full Stack), KalpStudio (Remote)

Nov 2024 – Oct 2025

- Led a team of 5 building a multi-tenant blockchain platform that runs automated on-chain transactions daily through a Web3Function service
- Built SSO user and org onboarding with self-custodial, custodial and MPC wallets (BitGo) on EVM and Kalptantra, with Chainalysis screening
- Cut onboarding friction by about 70% by architecting KYC onboarding and GINI token purchase through KALP-PAY
- Built signing and transfer modules and an API gateway that processed 5K+ gasless meta-transactions (Node.js, PostgreSQL, RabbitMQ)

Senior Blockchain Developer, Mai Labs (Remote)

Nov 2023 – Nov 2024

- Shipped 15+ production Solidity contracts for lending, staking and yield, holding \$2M+ TVL with zero incidents
- Built a Go indexer handling 1M+ transactions per day at 99.9% uptime, 40% faster than the Node.js service it replaced
- Integrated LayerZero and Axelar messaging across 5 EVM networks; ported OpenZeppelin-style libraries to Go

Developer Relations Engineer, CredShields (Remote)

Nov 2022 – Dec 2023

- Built automated smart-contract auditing tools that cut preliminary audit time by about 60%
- Gave 10+ talks and workshops on smart-contract security and grew the developer community about 3x

Web3 Developer (open source and hackathons), Independent (Remote)

Mar 2020 – Oct 2022

- Built and shipped web and Web3 projects in public on GitHub, from early web apps to NFT and DeFi dApps
- Won Polygon BUIDL IT 2021 (1st prize, NFTable), ETHIndia 2022 prizes (Meet3Club) and an ETHGlobal HackFS prize
- Started leading the Polygon Guild Lucknow developer community in January 2022

PRODUCTS AND PROJECTS

Identity Layer for RWA Tokens and AI Agents, compliance protocol

2026

Solidity, UUPS proxies, EIP-712, Groth16 ZK, Hardhat, OpenZeppelin

- One call tells a token if both sides of a transfer are KYC'd, accredited and sanctions-clear, via Groth16 ZK
- Seven upgradeable contracts; AI agents act for verified identities through scoped, revocable delegation

BuilderFi, no-code DeFi automation, live in early access (builderfi.io)

2025

Solidity, React, Node.js, The Graph

- Non-custodial strategies across protocols: LP automation (range, rebalance, compound) and funding-rate arbitrage with hedging

PolyLiquid, cross-chain liquid-staking vault (github.com/PrabalParihar/polyliquid)

2025

Solidity, ERC-4626, Chainlink CCIP, Chainlink Automation

- One ERC-4626 token holding stETH, rETH and sAVAX; rebalances with Chainlink Data Streams and moves across chains via CCIP

Testimonia, AI testimonials SaaS, live with paid plans (testimonia.xyz)

2026

Next.js 16, React 19, PostgreSQL, Anthropic, OpenRouter, Cloudflare R2, Cashfree

- Built solo end to end, from WhatsApp review capture to Reel rendering and UPI billing; LLM guardrails refuse fake reviews

Also built, live: Lettercape (lettercape.com), Collabcape (creators.witlabs.org), Shotcape (video.witlabs.org)

SKILLS

Smart contracts: Solidity, Foundry (fuzz, invariant), Hardhat, OpenZeppelin, Slither, Echidna, gas optimization, ERC-4626, ERC-4337

DeFi and chains: Uniswap V4, MEV, Chainlink CCIP, LayerZero, Axelar; Ethereum, Base, Arbitrum, Polygon, Robinhood Chain, Solana

Languages: Solidity, TypeScript, Rust, Go, Python, SQL

Backend and infra: Node.js, NestJS, PostgreSQL, Redis, RabbitMQ, Ponder, The Graph, Docker, AWS, CI/CD

Frontend and AI: Next.js, React, viem, wagmi, ethers.js, MPC wallets (BitGo), LLM agents, Claude and OpenAI APIs

AWARDS

- **2025:** ETHGlobal Agentic Ethereum (Coinbase CDP); Seedify AI Agents (Best Infra and Framework); EDU Chain (Best DeFi)
- **2024:** Encode Club Bangkok Bitcoin Hackathon (1st); ETHGlobal Bangkok (Chronicle); ETHOnline (Best Dev Tooling)
- **2023:** Gitcoin Grants DeSci round, \$10K grant; Hack FEVM, Best DeFi
- **2021–2022:** ETHIndia (Huddle01 3rd, 4 sponsor prizes); ETHGlobal HackFS (Protocol Labs); Polygon BUIDL IT (1st)

LEADERSHIP AND SPEAKING

- **Polygon Guild Lucknow**, Chapter Lead since 2022: 700+ developers, 20+ workshops, 15+ security talks
- **KalpStudio Buildathon**, organizer: ran a 500+ participant student buildathon with offline workshops in Chandigarh

EDUCATION

B.Tech, Computer Science and Engineering, AKTU, Lucknow, India

Aug 2019 – Jun 2023