

Prabal Pratap Singh

Senior Full Stack Engineer | AI Agents and Onchain Systems

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SUMMARY

Senior full stack engineer building AI products and onchain systems, with 6+ years of experience. Shipped Testimonia (live, paid plans) end to end, lead Uniswap V4 LP automation (CopyPool) at Warlands, and previously shipped 15+ DeFi contracts with \$2M+ TVL at Mai Labs.

HIGHLIGHTS

- Built and launched Testimonia solo, idea to paid SaaS, with LLM guardrails that stop the model from inventing reviews
- Lead CopyPool, a live Uniswap V4 LP-automation product on Base mainnet with 90 automations and \$28.5K fees earned
- Shipped 15+ production DeFi contracts holding \$2M+ TVL with zero incidents; Go indexer at 1M+ transactions per day

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

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

Lettercape, AI email-campaign builder, public beta (lettercape.com) 2026

Next.js, PostgreSQL, Drizzle, BullMQ, Redis, React Email

- Structured-output AI drafts, brand kits read from a website, a 6-check pre-send linter, Klaviyo and Mailchimp export
- First commit to public beta in 18 days with 556 automated tests and compare-and-swap saves that never lose work

Autonomous Coding-Agent Platform, in production 2026

TypeScript, Next.js, PostgreSQL, E2B, Claude Code, Codex, Telegram API

- Builder and reviewer agents run in isolated E2B sandboxes; generated code never touches the host
- Crash-safe orchestration on PostgreSQL leases, budget caps and AES-GCM secrets; shipped in 6 days, 107 tests

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

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

SKILLS

AI: LLM agents, multi-agent orchestration, tool use, structured outputs, guardrails, Claude, OpenAI and OpenRouter APIs, E2B

Blockchain: Solidity, Foundry (fuzz, invariant), Uniswap V4, ERC-4626, ERC-4337, viem, wagmi; Ethereum, Base, Arbitrum, Polygon

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

Backend and data: Node.js, NestJS, FastAPI, PostgreSQL, Redis, BullMQ, RabbitMQ, GraphQL

Frontend and infra: Next.js, React, Tailwind CSS, Docker, Kubernetes, AWS, Railway, CI/CD

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