

Prabal Pratap Singh

AI Product Engineer | LLM products and agent infrastructure, shipped end to end

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SUMMARY

AI product engineer who ships LLM products and agent infrastructure end to end, with 6+ years of experience. I built Testimonia and Lettercape solo, run coding agents in sandboxed infrastructure, and have operated production systems at 1M+ transactions per day.

HIGHLIGHTS

- Built and launched Testimonia solo, idea to paid SaaS: LLM co-writing in 20+ languages with guardrails enforced in code
- Built and deployed a coding-agent platform in 6 days: builder and reviewer agents (Claude Code, Codex) in E2B sandboxes
- Run production systems at scale: a Go indexer at 1M+ transactions/day, 99.9% uptime; CopyPool live with 90 automations

EXPERIENCE

Founder and Engineer, WitLabs, AI product studio (witlabs.org) (Lucknow) 2026 – Present

- Testimonia (testimonia.xyz, live with paid plans): WhatsApp and QR review capture, in-browser Reel rendering, a sub-3 KB widget and Cashfree UPI billing
- Built LLM features on Anthropic and OpenRouter with guardrails in code: drafts use only the customer's notes, invented numbers are stripped and fake-review requests are refused
- Lettercape (lettercape.com, beta): structured-output AI drafts, brand kits read from a website, a 6-check pre-send linter and Klaviyo export; 556 tests
- Also shipped Collabcape (creators.witlabs.org), Shotcape (video.witlabs.org) and NexAd (nexad.digital); own product, architecture and deploys

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

Landpatch, GitHub App for API migrations, live (landpatch.up.railway.app)

2026

TypeScript, Next.js, Hono, PostgreSQL, pg-boss, ast-grep, ts-morph, Docker, GitHub Apps

- Finds sunset OpenAI Assistants calls with ast-grep and has an LLM migrate them onto the Responses API
- Opens a PR only after sandbox verification passes, with a \$2 LLM cap per run; its first real PR migrated 5 of 6 call sites

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

Multi-Model Forecasting Agent, prediction markets

2026

Python, FastAPI, Pydantic, Grok, OpenAI, Polymarket

- Grok and GPT forecast Polymarket markets without seeing prices; deterministic fee-aware Kelly sizing sets positions
- Circuit breakers, leases and a full decision audit trail; calibration learns only from resolved markets

SKILLS

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

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

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

Frontend and infra: Next.js, React, Tailwind CSS, Docker, Kubernetes, AWS, Railway, Cloudflare R2, CI/CD

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

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