

# Piyush Utkar

## Web3 / Solidity / Smart-Contract Engineer

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### SUMMARY

Self-taught Web3 engineer shipping production smart contracts, DeFi protocols, and OP-Stack infrastructure. Built a from-scratch L2 (Veltrix), a working ETH↔L2 bridge, a Solidity AMM with on-chain history, and a Solana cNFT platform. On Upwork I have shipped 13+ contracts for clients including a TRON USDT proxy, Discord-keplr wallet integrations, voice-chat LLMs, and multi-chain swap tooling. Strong across the full EVM stack — contracts, deployment, indexing, and frontend integration — plus a working knowledge of Solana (cNFT), Tron (TRC-20), and cross-chain aggregators (Mayan.Finance).

### SELECTED PROJECTS — WEB3

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#### Veltrix L2 — modular OP-Stack rollout 2026

*Solidity · Foundry · OP Stack · React · Vite · ethers*

- Built and shipped a full L2 stack: chain contracts, devnet orchestration (Docker), block explorer, and user-facing Sepolia ↔ Veltrix bridge.
- Bridge calls `OptimismPortal.depositTransaction` and `L2ToL1MessagePasser.initiateWithdrawal`; UI resolves withdrawal lifecycle (initiated → prove → finalize) from live chain state.
- Deployed ERC-20 native token VEL, Genesis config, and chain spec; maintained runbooks and ops scripts.

#### ShineSwap — DeFi AMM DApp 2025

*Solidity · Hardhat · OpenZeppelin · React · Vite · ethers*

- Custom AMM with constant-product invariant; on-chain swap event indexer renders user history directly from Swap logs on Sepolia.
- Fee-on-transfer ERC-20 token + standalone LP vault; deployed at `0x476D...8564` and verified on Sepolia Etherscan.

#### FriendlyMinter — Solana cNFT minting platform 2025

*Next.js · TypeScript · Solana · cNFT compression*

- Compressed-NFT minting flow with on-chain Merkle tree management and wallet adapters for the Solana ecosystem.

#### Mayan.Finance → DFNS USDC forwarder 2025

*Node.js · Mayan SDK · DFNS custody · EVM + Solana*

- End-to-end swap-and-forward pipeline: detect deposit → quote Mayan → approve (ERC-20) → DFNS sign + broadcast → USDC to Request.Finance.
- Supports Ethereum, Solana, and BSC → Ethereum cross-chain. Used DFNS user-action signing endpoints and polled for tx finalization.

#### Push Stakes — Web3 casino platform 2025

*Next.js · Wagmi · WalletConnect · MongoDB · on-chain game wallet*

- Operator-controlled on-chain game wallet; signed-payload verification with timestamp window on all mutating routes.
- Deployed at `pushstakes.404piyush.me` with preconfigured metadata and OG images.

#### Virtue Token Leaderboard — token analytics SaaS 2025

*FastAPI · PostgreSQL · React · Covalent · Alchemy · Etherscan*

- Indexed Virtue Token holders, classified wallets into roles (Diamond Hands, Gladiator, Trader, Jeet) by hold-time and sell behavior.
- Admin dashboard for KOL/whale tagging; production-deployed on Render + Vercel.

#### TRON Transfer DApp (client MVP) 2025

*React · Node.js · Express · TronWeb*

- Full-stack DApp for transferring TRON/TRC-20 assets; React frontend + Node/Express backend, delivered as a client MVP.

## SELECTED CLIENT WORK (UPWORK, 2025–2026)

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- **Senior Trading Systems Engineer (C#, Crypto + HFT + Multi-Exchange Execution)** — delivered order-execution module across exchanges.
- **Smart Contract Developer — TRON USDT Proxy** — TRC-20 proxy contract with role-based access; 5.0 rating.
- **Uniswap V4 liquidity technical support** — answered protocol-level integration questions for a live client.
- **Discord Bot for Voice Chat Integration with LLM** — voice-channel LLM integration; 5.0 rating, \$350 fixed.
- **Discord Bot — Keplr Wallet → Server connection** — wallet auth + role gating for a Cosmos community.
- **Web3 Developer for Token Swap Implementation** — repeated engagement across Arbitrum & EVM.
- **Discord Bot — Email Verification and Role Management** — 5.0 rating: *"Great developer with deep knowledge about Discord... goes above and beyond."*
- **TG → Discord migration** — 5.0 rating: *"Awesome communication and work. Super recommended."*

## SKILLS

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|-----------------|--------------------------------------------------------------------------------------------------------------|
| Smart contracts | Solidity, OpenZeppelin, Hardhat, Foundry, TronWeb, Anchor (Solana basics), cNFT compression                  |
| EVM protocols   | ERC-20 / ERC-721, constant-product AMMs, proxy patterns, role-based access, signature verification (EIP-712) |
| L2 / infra      | OP Stack, OptimismPortal, L2ToL1MessagePasser, geth/op-geth, Docker, devnet orchestration                    |
| Cross-chain     | Mayan.Finance, DFNS custody, BSC↔Ethereum bridging, gasless flows, slippage handling                         |
| Frontend        | React, Next.js, Vite, ethers.js, Wagmi, WalletConnect, Tailwind                                              |
| Backend / data  | Node.js, Express, FastAPI, MongoDB, PostgreSQL, REST + webhook design                                        |
| Tooling         | Foundry tests, Hardhat, mypy, ruff, GitHub Actions, Render, Vercel, macOS/Linux                              |

## OPEN SOURCE & REFERENCES

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- [github.com/404Piyush/veltrix-l2](https://github.com/404Piyush/veltrix-l2) · [/veltrix-bridge](#) · [/veltrix-block-explorer](#)
- DeFi-Token-Swap-DApp · [FriendlyMinter](#)
- Portfolio: [404piyush.me](https://404piyush.me) · Calendly: [calendly.com/404piyush](https://calendly.com/404piyush)

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Self-taught. References and verified client deliverables available on request.