

Aman Jha

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EDUCATION

Technocrats Institute of Technology
Bachelor of Technology, Artificial Intelligence

Bhopal, India
Nov. 2022 – June 2026

EXPERIENCE

Founder & Lead Engineer – thehodl.fun

Sept. 2025 – Feb. 2026

Solidity, Foundry, TypeScript, Next.js, Push Chain, Uniswap V3



- Built and shipped a cross-chain token launchpad on Push Chain from zero to production, owning architecture, smart contracts, backend, and frontend
- Solved a core DeFi UX problem (token launches trapped on a single chain) by enabling launches and trades with assets from any supported chain (ETH, SOL), no bridging required, via Push Chain's universal account system
- **Scaled to ~800K transactions on testnet, including 500K+ token launches**
- Wrote the bonding-curve engine into a modular, upgradeable system (Core orchestrator, Factory, per-token BondingCurve, ERC4626 FeeVault) with constant-product AMM math and virtual reserves for smoother price discovery
- Integrated **Uniswap V3** for automatic DEX listing once a token's bonding curve hits its liquidity target, graduating it to full open-market trading
- All contracts upgradeable via UUPS proxy pattern, with reentrancy protection, access control, and invariant checks; shipped a full-stack system (Foundry, NestJS, Next.js)
- **Runner-Up, Project G.U.D hackathon (Push Chain)**

PROJECTS

Sealevel – Solana Language Model | *Python, PyTorch, Unsloth, SGLang, Qdrant, MCP*



- Built a 38-script data pipeline (collection → dedup → filter → prepare) that curated 270K training records from a 741K/731K CPT/SFT raw pool, then fine-tuned Qwen2.5-Coder-7B-Instruct via QLoRA (CPT + SFT + DPO) for Solana/Anchor development
- Scored **85%** on an 80-task Solana/Anchor benchmark while holding **90%** on general HumanEval
- Deployed as a live inference stack (SGLang on Akash H100, LiteLLM proxy, Qdrant-backed RAG over Solana/Anchor docs) served through an OpenAI-compatible API
- Shipped 4 client surfaces on one backend: web chat, PyPI CLI (**1,500+ installs**), VS Code extension, MCP server for Claude Code/Cursor/Windsurf

perpX | *Solana, Anchor, Rust*



- Built a decentralized secondary market for Kalshi prediction markets, trading election, macro, and crypto outcome markets with up to 40x leverage – permissionless where Kalshi itself is KYC-gated and US-only
- Engineered a 1:1 market-sync layer mirroring Kalshi's live prices and settlement outcomes on-chain, plus a keeper bot for automated liquidations and expiry settlement
- Shipped the full Anchor program: isolated-margin positions, liquidation engine, insurance fund for under-collateralized trades

Private Perps DEX | *Solana, Anchor, Arcium (MPC), Zcash, Pyth*



- Built a privacy-focused perpetual futures DEX where position size, collateral, leverage, and PnL are fully encrypted on-chain via Arcium's MPC network
- Routed deposits/withdrawals through Zcash shielded transactions, breaking the on-chain link between funding source and trading activity
- Combined a public Anchor perps engine, confidential Arcium program, and Zcash bridge relayer, priced by Pyth oracles, to eliminate front-running and strategy-copying

ACHIEVEMENTS

- **Solana Foundation × CoinDCX India Grant** – \$4,000 for tradeX (Feb 2025)
- **Dialect Blinks Instagrants** – \$1,000 for X-Mailer (Jan 2025)
- **Agents in Action Hackathon** – 3rd, Akash Track (Best Overall Project), \$2,000 Akash Credits, for PayPerUse
- **Zo House Hackathon** – Data Management AI Agent Track, 420 USDT, for DockMind

TECHNICAL SKILLS

Languages: Rust, Solidity, TypeScript/JavaScript, Python

Blockchain: Solana, Anchor, Foundry, Uniswap V3, Arcium (MPC), Zcash, Push Chain, Pyth

AI/ML (Solana-specific): PyTorch, Fine-tuning (QLoRA), RAG Pipelines, Vector DBs (Qdrant)

Frameworks: React, Next.js, Node.js, Hono

Developer Tools: Git, Docker, AWS, Akash, Redis