

Prazwal Ratti

Web3 & Backend Developer

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ABOUT ME

Web3 and backend developer focused on the systems layer — building decentralized applications, DeFi tooling, and scalable backend services in Rust, Solidity, and TypeScript. Active open-source contributor to major protocols (rust-lang, Uniswap, Foundry), currently researching how to eliminate liquidations in decentralized lending. Builder-first: constantly shipping, experimenting, and contributing upstream.

OPEN-SOURCE CONTRIBUTIONS

- rust-lang/rust** | Compiler / trait solver Jun 2026
– Contributed a fix detecting cyclic subtypes during generalization in the next-generation trait solver (#157786).
- Uniswap/v4-core** | DeFi core pool accounting Mar 2026
– Contributed fee-growth direction assertions to core pool-accounting tests (#1017).
- foundry-rs/foundry** | Ethereum tooling (Rust) Jun 2026
– Contributed support for running `forge verify-bytecode` without a block explorer (#15142).
- aptos-labs/aptos-core** | Move VM (Rust) Jun 2026
– Contributed validation of `Move Identifier` during deserialization for safer module loading (#20056).
- Circle** | arc-node & evm-cctp-contracts Jun 2026
– Hardened node robustness (streaming-overflow DoS, spammer panics, metrics accuracy) (#161); added `ITokenMessenger` interfaces and `minFee` fuzz invariants to the Cross-Chain Transfer Protocol (#108, #109).
- Oasis, Keplr & Stellar** | additional contributions 2026
– Contributed to Oasis `oasis-sdk` (#2479), Keplr Wallet (#1964, #1965), and Stellar Freighter (#2856).

PROJECTS

- SwapKit** | TypeScript, Rust, Solidity 2026
– Intent-based liquidity SDK exposing one `swap(intent)` call that abstracts 1inch Fusion+, Uniswap v4 hooks, and Paraswap.
– Routing engine with MEV-risk simulation, cross-chain execution, and gas optimization; **220+ tests**, published on npm as `@swap-kit/core`.
- Apiforge** | Rust 2026
– Production-grade CLI automating the full API release pipeline (version bump → Docker → Kubernetes → health checks) with automatic rollback, dry-run, and audit logging.
– Integrates AWS ECR, Docker Hub, GitHub Releases, Kubernetes & Slack; published on crates.io.
- Tend** | Rust 2026
– Autonomous Uniswap v4 LP manager that monitors a position, detects out-of-range drift, and rebalances with no manual intervention.
– Written in async Rust with on-chain price monitoring and safe, gas-aware transaction handling.
- LiqX** | TypeScript, Solidity 2025
– Co-built a cross-chain anti-liquidation system: autonomous AI agents monitor positions across Ethereum & Solana, prevent liquidations, and rebalance securely.
– Integrated a MeTTa-powered agent layer for decision-making across 95+ lending protocols.

EDUCATION

Vellore Institute of Technology (VIT), Chennai | B.Tech, Computer Science (Core) — CGPA 8.10 / 10 2023 – 2027
FIITJEE | Class XII — 91% • Class X — 99%

SKILLS

Languages: Rust, Solidity, TypeScript, JavaScript, Python, Go, C, C++, Noir, Circom, SQL, Bash

Blockchain / Web3: Ethereum, Solana, Foundry, Hardhat, Ethers.js, Wagmi, Chainlink, The Graph, OpenZeppelin, IPFS, zkSync, Arbitrum, Optimism, Sui, ZK Proofs

Backend: Node.js, Express, Flask, REST, gRPC, GraphQL, WebSockets, PostgreSQL, MongoDB, Redis, Kafka, Microservices

DevOps & Tools: Docker, Kubernetes, AWS (ECR), GitHub Actions, CI/CD, Linux, Git, Remix, Foundry