

# Zubin Choudhary

Full-Stack & Web3 Engineer • 4+ Years • React • Node • Rust • Solidity • EVM Infra

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## Summary

Full-stack and Web3 engineer with experience shipping high-performance frontends, smart-contract systems, account-abstraction tooling, and developer platforms. Strong generalist who can move from prototyping to production, working across React, Node, Rust/Tauri, and Solidity.

## Experience

### Freelance & Open Source – Software Developer

Jul 2021 – Present

- Collaborated with Hyperlane on Interchain Security Modules (ISM):
  - added post-dispatch hooks + replay-protection.
  - Integrated Polygon zkEVM bridge for improved cross-chain verification.
- Designed, built, and shipped a Mask Network extension using Unlock Protocol;
  - implemented Diffie-Hellman key exchange over GunDB for End to End Encryption.
  - and community-server fallback.
- Built a creator dashboard for token-holder access with Discord integration (Rally + Unlock).
- Built an internal stock lookup + booking tool for a furniture chain (React/Node/Mongo)
  - Reduced booking errors ~90%
  - Synced cleanly with their ERP.

### FFReed – Founder/Developer

May 2024 – December 2025

- Designed and built FFreed, an account-abstraction SDK enabling gasless smart-contract deployment across multiple EVM chains.
- Reduced integration time for AA flows by ~40% through a simplified developer API.
- Implemented Shamir Secret Sharing + OAuth for secure private-key management and recovery, cutting key-recovery friction for testers.
- Designed pluggable relayer/payment abstraction (Gelato + custom relayers), allowing devs to swap relayers without code changes.
- Reached ~10 early dev sign-ups and completed 2 technical evaluations with web3 teams (no full adoption, but positive feedback on API design).

### Stubs – Software Developer

Dec 2022 – Oct 2023

- Developed ERC-721 and ERC-1155 smart contracts with governance + metadata upgrade patterns.
- Designed and deployed relayer services enabling gas-sponsored abstracted transactions.
- Built a high-performance React grid for rendering on-chain achievements.
- Virtualized grid renders **12k+ on-chain items at ~60fps** on mid-range hardware.

### Sublime Finance – Software Developer

Dec 2021 – Nov 2022

- Implemented smart-contract integrations for high-liquidity DeFi modules.
- Built EIP-712 off-chain identity flows.
- Optimized frontend performance: reduced page load from **7–9s → ~3s** using lazy loading + code-splitting.

## Google Summer of Code – Fedora “Gooey Karma” – Student Developer

Apr 2019 – Aug 2019

- Rewrote **Gooey Karma**, a Qt-based GUI for Fedora’s Bodhi update-testing workflow.
- Migrated the entire tool from Python 2 → Python 3, refactoring deprecated APIs and stabilizing Bodhi interactions.
- Added UI improvements for browsing packages, viewing updates/bugs, and submitting karma more efficiently.
- Packaged and delivered the tool as an RPM, improving onboarding for Fedora QA contributors.
- Collaborated with Fedora QA and infra teams to streamline testing workflows and resolve API inconsistencies.

## Projects

### [Holdem – Cross-Platform File Holding Utility \( 100+ ⭐ on Github\)](#)

- Lightweight, open-source desktop app built with **Tauri**, **Rust**, and **TypeScript**.
- Runs in the system tray – shake your mouse while dragging to summon a floating “shelf” and drop files there temporarily.
- Supports: drag-and-drop for files & folders, browser image drops, and floating shelf for multitasking.
- Global hotkey for quick access + auto-launch on startup for seamless workflow.
- Packaged as a compact, efficient desktop tool (thanks to Tauri’s minimal binary use).

### [Benjamin – ETH India](#)

Dec 2023

- Built an AA-based wallet using Web3Auth + Safe + Gelato.
- Implemented swap flows using 1Inch.

### [Face-Recognition Public-Transport Wallet](#)

- Microsoft Imagine Cup Asia finalist.
- One-shot learning model (98% accuracy) for rider verification.
- Automated fare calculation using shortest-path metro routing.

## Education

B.Sc. Computer Science – Bennett University June 2021