

Zubin Choudhary

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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**.
 - 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](#)
 - Reduced booking errors **~90%**
 - Synced cleanly with their **Frappe ERP instance**.

[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.
- 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 (no adoption, but positive API feedback).

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**.

[Google Summer of Code – Fedora “Gooley Karma” – Student Developer](#)

Apr 2019 – Aug 2019

- Rewrote **Gooley Karma**, a Qt-based GUI for Fedora’s Bodhi update-testing workflow.
- Migrated the entire tool from **Python 2 → Python 3**.
- Added UI improvements for browsing packages, viewing updates/bugs, and submitting karma more efficiently.
- Collaborated with Fedora QA and infra teams to streamline testing workflows.

Projects

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

- Lightweight desktop app built with **Tauri**, **Rust**, and **TypeScript**.
- Floating “shelf” for temporarily holding files.
- Browser image drops, drag-and-drop folder support.
- Global hotkey + autostart.
- Small Tauri binary footprint.

[Benjamin – ETH India](#)

Dec 2023

- 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).
- Automated fare calculation using metro routing.

Education

B.Tech Computer Science – Bennett University

June 2021