

# 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, Solidity and more.

## 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 “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**.
- Added UI improvements for browsing packages, viewing updates/bugs, and submitting karma more efficiently.
- Packaged and delivered the tool as an RPM.
- Collaborated with Fedora QA and infra teams to streamline testing workflows.

## Projects

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### [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](#)

- 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

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### B.Tech Computer Science – Bennett University

June 2021