

# Zubin Choudhary

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## Experience

Freelance Open Source | Software Developer | January 2024 - (Now!)

- Collaborated with [Hyperlane.xyz](#) in the development of the Interchain Security Modules (ISM) system and implemented post-dispatch hooks to facilitate secure cross-chain messaging, leveraging the [PolygonZkevm](#) bridge for enhanced security.

ETH - India December 2023

- Built [Benjamin](#) an account abstraction-based EVM wallet for easy transactions without the hassle of managing keys.
- Used [web3auth.io](#) for key management and a combination of [Safe Wallet](#) with [Gelato](#) relayers to provide a smooth AA experience
- Demonstrated this with a few transactions on [1Inch](#) doing a bunch of swaps

[Stubs](#) | Software Developer | December 2022 - October 2023

- Developed smart contracts for ERC721 and ERC1155 tokens, incorporating governance functionalities.
- Developed and deployed a relayer service for abstracted transactions.
- Built a grid system to place elements anywhere on the page to showcase On-chain tokens and achievements using React.js.

[Sublime Finance](#) | Software Developer | December 2021 - November 2022

- Collaborated with a team of skilled Solidity developers to build smart contracts for high liquidity DeFi applications; worked on test cases using Hardhat.
- Designed and developed a combination of web services and contracts to verify off-chain identity using EIP-712.
- Optimized the frontend code by using techniques like lazy loading and webpack code splitting to improve the user experience, bringing load times down to 3s from 7-9s while reducing the code size by 30% (2MB).

Freelance Open Source | Software Developer | July 2021 - December 2021

- Built an extension for [Mask Network](#) that uses the [Unlock Protocol](#) to provide paywalled content to users on conventional social media using a [diffie hellman](#) key share over [gun database](#).
- Developed a creator dashboard for token holders' access management on platforms like Discord for [rally.io](#)

[Tortoise](#) | Software Developer Intern | April 2020 - July 2020

- Engineered a robust backend application utilizing the Django Rest Framework, providing APIs for a Flutter frontend application.
- Implemented secure authentication and payment integration using Razor Pay.
- Deployed the application on AWS to ensure seamless accessibility.

Google Summer of Code (Fedora, Red Hat) | Student Developer | April 2019 - August 2019

- Built a GUI-based Linux application for downloading, testing, and reviewing packages.
- Updated the deprecated Python2 API endpoints and dependencies to Python3.
- Conducted thorough testing of the application and created distribution packages.

## Projects

WYSIWYG solidity smart contracts editor

- Built a UI for drag-and-drop elements like scratch which would allow users to build solidity smart contracts
- Added an AST check on the compiled solidity code.

Face Recognition-Based Public Transport Wallet | Hackathon Project - Microsoft Imagine Cup Asia Finalists

- Utilised one-shot learning face recognition algorithm with 98% accuracy.
- Automated ticket pricing calculation based on the shortest route using metro connectivity.

## Education

Bachelor of Computer Science, Bennett University, UP, India (June 2021)